

TELEGRAPHIC ADDRESS-"ALLENBURYS LONDON."

EXCHANGE COLUMN, PAGE 10. SERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISE

#### THE CHEMIST AND DRUGGIST.

MAY 26, 388.

All all

## THE NEW ANTIPYRETIC

(Para-Acetphenetidine)

## $C_{2}H_{4}$

 $\mathbf{NH} (\mathbf{CO} - \mathbf{CH}_3)$ 

MANUFACTURED BY THE

# FARBENFABRIKEN VORM. FRIEDR. BAYER & O.

#### THERAPEUTIC PROPERTIES.

IN HEALTHY PERSONS Phenacetine, according to Dr. Köbler, does not produce any ill-effects in doses from 0.5-0.7 grm. (8-12 grains); but in all cases of pyrexia even relatively small doses of 0.3 grm. (5 rains) are never without perceptible antipyretic effects. To adults it is best administered in single doses of (-0.7) grm. (10-12 grains), instead of smaller ones given repeatedly; no disagreeable after effects, such as usea, vomiting, or cyanosis, were ever observed in 50 cases presenting various febrile conditions. On the c trary, at fever temperatures of 39.5-40.5 C. (103.1-104.8 F.) a reduction of 1.5-2.5 C. (2.7-4.5 F.) in riably ensued; the reduction is usually gradual, reaching its maximum in 4-6 hours, the rise is likewise adual, extending over 8-10 hours. Decrease of temperature (Apyrexy) is usually obtained without sweat sections, but the pulse improves and a pronounced euphoria ensues.

Phenacetine does not cause any disagreeable symptoms in healthy persons even in doses of 1- grm (16-32 grains); in 20 cases (12 adults and 8 children) in which it was administered it proved to be a nickly and energetically acting antipyretic. Nausea, vomiting, cyanosis, collapse, or other disagreeable after effect never occur. Dr. Hoppe fully confirms Dr. Kobler's statement as to the gradual fall and very slow rise of fever toperatures. Both investigators agree that Phenacetine produces **Apyrexy** as surely as any other antipyret.

FOR CHILDREN.—In eight cases reported upon by Dr. Hoppe, Phenacetine acted energetically as an antip tic on children in doses of 0,2...0,4 grm.  $(3\frac{1}{2}...7$  grains) without causing any disagreeable symptoms, and Dr. Sluyter in arment has recently given it to young children in doses of 0,5 grm. (8 grains); he obtained by its administration not only the estimate antipyretic effect, but also a condition of evident comfort and quiet.

NEURALGIA.—Besides its antipyretic effects, it possesses eminently antineuralgic properties. Dr. Hoppe plished 15 cases of severe cephalalgia and megrim, where Phenacetine produced an effect which was most beneficial an at the same time, most astonishing. It should also be mentioned that Phenacetine was of special value in a case with had previously, but unsuccessfully, been treated by Antifebrin and Antipyrin. In such larger doses as 1—2 grm. (16—32 rains) given several times a day, Dr. Hoppe has found Phenacetine to be an excellent antineuralgic; it does not act quity, but surely (generally in 1—2 hours), without causing any ill effects. On this point Dr. Heusner also says :—

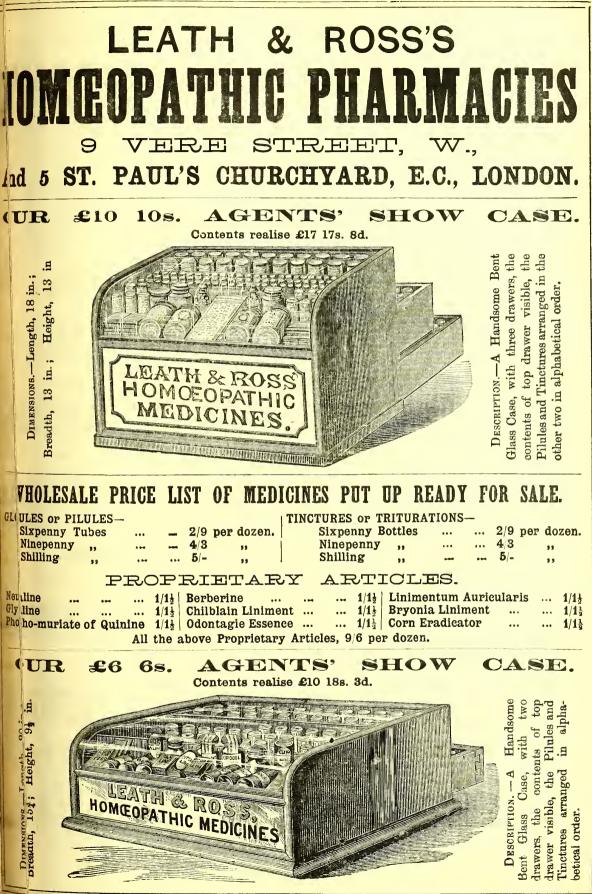
"Phenacetine promises to become a most valuable addition to therapeutic agents, owing to its beneficial influce on the nervous system. It is not a narcotic like morphia, but acts, as Dr. Hoppe also observes, similarly to Antipyrin, and more comforting and pain-allaying. Its wonderful anodyne effect is shown in cases of neuralgia and other derangement of the nervous system arising from reflectant irritation or general nervousness. I have prescribed it almost daily in egrim gastralgia, ischias, insomnia, &c., caused by diseases of the uterus, the kidneys, or by overwork, &c., and have fruently heard it highly and enthusiastically praised. In insomnia caused by over-work and nervous excitement I mys hav taken doses of 1 grm. (16 grains) with the best result. Phenacetine, contrary to quinine, bromide of potassium, d the narcotics proper, does not cause lassitude or other disagreeable symptoms, and is easily taken on account of its taste enes As it promises to become an important remedy in many hysterical, neuralgic, and other nervous disorders, I do not sita to predict for it in this respect a distinguished place among therapeutic agents."

MAY BE HAD THROUGH THE WHOLESALE DRUGGISTS, OR IN QUANTITY FROM



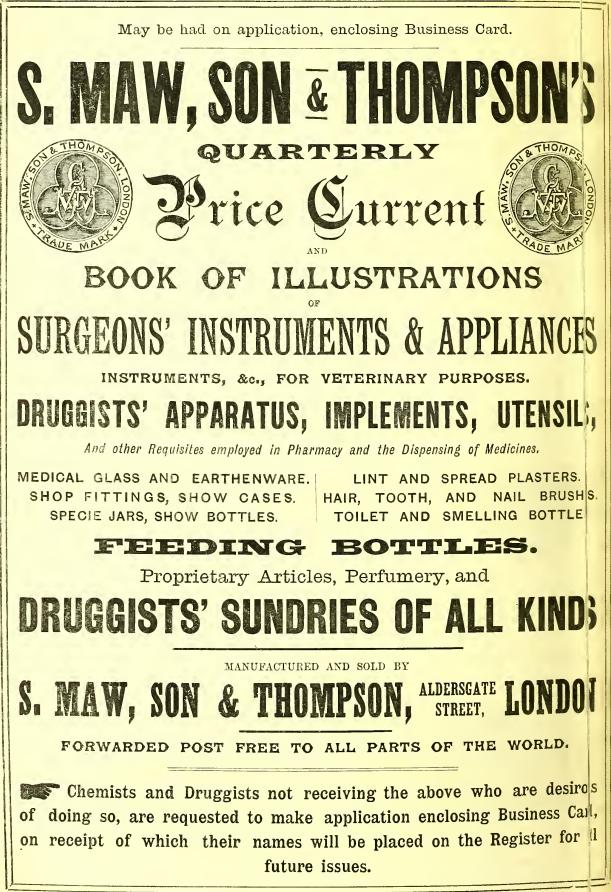
1

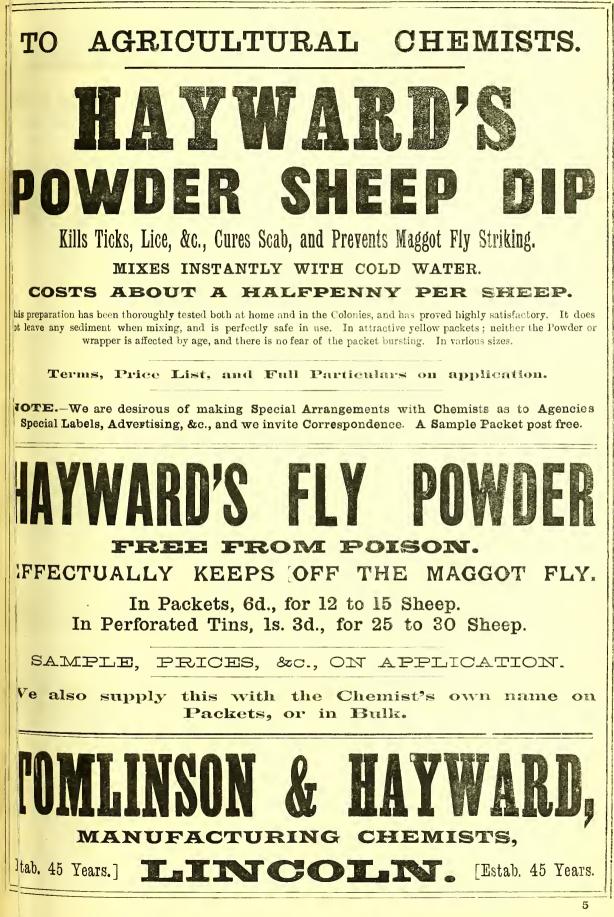
3



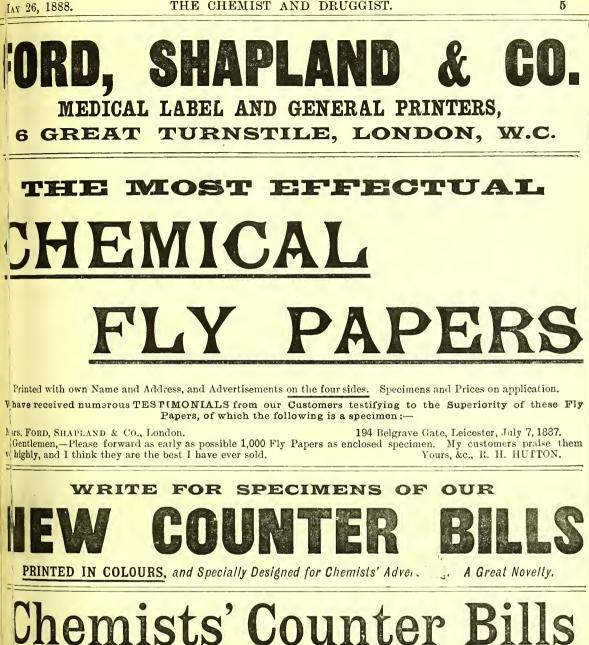
a

MAY 26, 188









ON GOOD WHITE PAPER, AT LOWEST PRICES EVER OFFERED. CROWN 8vo. BILLS  $(7\frac{1}{2}$  in. × 5 in.)

> DEMY 8vo. BILLS  $(9 \text{ in.} \times 5\frac{1}{2} \text{ in.})$





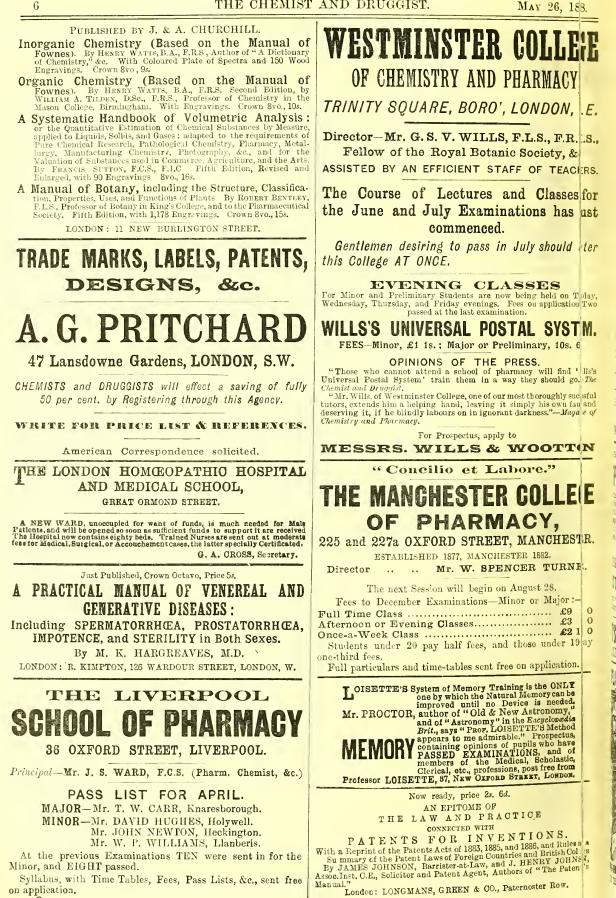
ALL OTHER SIZES AT EQUALLY LOW RATES. SAMPLES AND PRICES ON APPLICATION.

Among numerous TESTIMONIALS we have received the following:-

D. Sirs, 30 George Street, Oban, Dec. 21, 1886. These handbills give me every satisfaction. For excellency of workmanship, clearness of type, and quality of paper, th far surpass any similar work which I have previously had from others in your trade. Messrs. FORD, SHAPLAND & CO., London. Yours faithfully, SAMUEL LAWRENCE.

## **RICE LISTS, PAMPHLETS, CIRCULARS, BILLHEADS, MEMORANDUMS, CARDS,**

And all kinds of Printing and Stationery required by Chemists at most Moderate Prices.





## EXCHANGE COLUMN.

#### This section of "The Chemist and Druggist" must be closed for press by Thursday noon of eachveek. Remittances payable to EDWARD HALSE.

#### TERMS.

Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at he rate of  $\frac{1}{2}$ d. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pa ld. per word, his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be dressed to "The Publisher of THE CHEMIST AND DURGIST, 42 Cannon Street, E.C.," and the figure must be distinctly endorsed npon the envelope. Let will then be forwarded to their proper destination. A price is counted as one word, as  $e_{\sigma}$ ,  $\pounds 1$  0s. 6d. DEPOSIT OF MONEY.—In order to ensure safety we offer the following system:—The purchaser of anything advertised in the change Column may remit the amount to us, accompanied by a commission of 6d. if the amount is  $\pounds$  or under; and ls if over that sum. We ackweledge receipt of deposit to both parties, and hold the money until we are satisfied that either the goods are returned to their original owner or the archaese is completed.

is completed.

Postal orders and cheques sent as deposit must be made payable to Edward Halse, and crossed "Martin & Co."

#### FOR DISPOSAL.

8

#### Apparatus.

Stomach-pump and tubes complete, with flute key in mahogany case, made by Wood, Manchester, as good as new, only 22s. 6d. cash, worth 21.2s. Jones, Apothecaries' Hall, Llanrwst.

#### Formulse.

- Reliable recipes, 6d. each ; full set of 130, neatly copied in book, 7s. 6d.; send for list. "Chemist." Edwards, Wye, Kent.
- Euormous reduction .- Brooks's reliable recipes will now be 7d. each, 3 for 1s. 6d., 12 for 5s., post free; full instructions. Following 1ecommended as trial: "Tic Specific," "Corn Cure," "Glycerine Cream," "Rheumatic Embrocation," "Liver Pills," "Blood Cleanser," "Liq. Copaibæ," &c., "Ringworm Spe-cide," "Liq. Santal. Flav.," &c., "Jubilee Sauce," "Cold Cream," "Hop Tonic," " Foothache Remedy," "Furuiture Cream," "Brass Paste," "Brush Polish," "Nursery Pomade," &c. List frec. T. Brooks, Chemist, Louth.

#### Grugs and Chemicals.

- 1 gall. ol. crotonis ; any offer accepted. Bouta'l, 52 Marchmont Street, Russell Square, W C.
- Surplus stock of chiretta, cassicum cocculus Ind., catechu, quassia, calami aromat, Iceland moss, all powdered, in small quantities n ider 20 lbs; price reasonable to a buyer. H Gibbol, 17 Moray Road, Finsbury Park, Londou, N.

#### Literature.

Offers winted for Pharmaceutical Journal, either the lot or singly, from 83 to present date; also the current numbers to eu 1 of present year. Thomas, Hampton.

#### Educational.

" Public School Latin Primer," new; cost 3s., take 1s. Davcy, Spilsby, Lincs.

Shop Fittings. Counter scales, fig. 4 Maw, with weights complete, price 25s. ; one pint Eguisier's Irragatenr, fig. 18 Maw, price 12s. Lawrence, Pecl. Isle of Man.

- Nest of 42 mahogany-fronted drawers, 6 feet 6 by 4 feet 4, gold labelled, with three lockers under and mahogany coverboard over drawers, 31.3s. Kitson, Chemist, Worccster.
- For sale .- 16 5-oz. narrow mouth (recess and photo labels) round shop bottles; 20 5-oz. wide ditto; 10 5 oz. pink vecces jars (lined), dome tops, photo labels; 16 10-oz. ditto; 16 2-oz. ditto. Price and list of labels on application to F. J. Holdcroft, Chemist, Church Street, Malvern.
- Mahogany-frontel drawers, gold labels, glass knobs, secondhand, in nests, 6 ft., 8 ft, 9 ft, 12 ft. long; muhogany-fronted she ving, wall-cases, counter-cases, from 10s. each; muhogany-top counters, panelled fron's, 5s. per foot; six 6-gallon carboys, 10s. each; two 8-gallon ditto, cut stoppers, on stands, 15s. each; one 10-gallon ditto, 18s.; dispensing screens, blue ointment jars, bottles, desks, &c., &c., to be sold very cheap. Note the address, Natali Bros, 45 Old Street, Goswell Roid, Loadon, E.C.
- For sale .-- Complete fixtures of chemist's shop, comprising : - 2 counters (Spanish mahogany tops); 1 upright, 3 be it glass constercases; dispensing screen with English-made clock set in bandsome carving; large wall case with 6 glass doors; nest of drawers (12 ft. 8 io.), mahogany fronts, glass knobs, containing 60 small, 21 large lockers underneath; shop rounds, ointment, pill and extract jars, &c.; 1 specie jar, 2 carboys, mortar outside, well fitted and in good condition ; must be sold in one lot ; no reasonable offer refused. Caley, 109 Derby Road, Liverpool.

#### Soda-water Machinery

No. 1 Mondollot's soda-water machine a double filler for syphous and bottles, alla good condition, can be seen working, solo make room for larger plant. Williams, Aershot.

#### Miscellaneous.

- About 1 cwt. good Cochin giuger, rtially crushed: no reasonable offer efused. Joues, 406 Calcionian Road, N.
- Microscopic slides ; 5s. dozen ; including rgcous polarising and brilliant opaque biccts ; lists. Henry Ebbage, 344 Calcdoni Road, London.

#### WANTED.

- 2-grain pill-machine. Murshall, 5 Piml Road. Disarticulated skull ; cash or exchange, agden, High Street, Notting Hill, W.
- 1-grain pil'-machine, and suppository-nuld for making 12. Corbett & Wyatt, (mists, Stourbridge.
- Tincture-press, 2 or 4 pint, in good orking order, and cheap for cash. Peaco Chemi t, Sunderland.
- Glass show jurs, suitable for swee's, &c Particulars and price to Hodson, Whole Confectioner, Barrow-in-Furness.
- Old gold, platina, silver, or deutal mcu; utmost value in cash, or bigh-class n:banical work. Entwisic, Deutist, Shawtreet, Liverpool.
- Black bottles for top shc'f, one dozen more, 17 io. in circumference, 131 iu. ta 1, asuring to top of e.p. A pply, giving owest price, 60/40.
- Full set chemist's fixtures, must be magany; also stoppered rounds with glass abels; fixtures wanted for a shop 18 ft. 16 ft. Particulars, T. W. Robinson, Cemist, Myton Place, Hull.

TOILET SPECIALITIES. BEAUTY REGISTERED DIANE DE POITIERS. Eau de Toilette de Diane de Poiers Pommade de Diane de Poitiers Eau Régénératrice de Diane de Crême de Diane de Poitiers **BEAUTY** ! Savon de Diane de Poitiers Poitiers Diane de Poudre de Diane de Poitiers Eau Valentinois de Eau Dentifrice de Diane de Poitiers Poitiers A most attractive Counter Show. Sell readily. Liberal terms to Trade. Prices on applica m. MARIE DU BOYER, 41 NEW BOND STREET, LOND(N. TRADE MARK.



Will Grind, Granulate, or Shred any Material, Animal, Vegetable, or Mineral.

The following is an unsolicited Testimonial from a firm of Dry Soap Manufacturers, who have tried various other makes of Disintegrators without success:-

#### "April 28, 1888.

Q

"We are quite satisfied with your Machine, and in all probability will require another and larger one. Let us know the cost of one as large again as the one we have."

The Machine referred to is one of our smallest Machines (price £30), and is grinding 2 to 3 tons of material per hour.

collowing table gives some information as to the quantities of various classes of material the Machines will deal with per hour.

MATERIAL	No. 1 SIZE MACHINE	No. 2 Size Machine	No. 3 Size Machine
Coal Dust	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	20 cwt. 40 ,, 60 ,, 25 ,, 20 ,, 35 ,, 40 ,, 6 ,, 8 ,, 2 ,, 15 ,, 20 ,, 15 ,,	50 cwt. 200 ;; 140 ;; 50 ;; 90 ;; 110 ;; 15 ;; 20 ;; 5 ;; 40 ;; 50 ;; 30 ;;

lybasers should compare the quantities of material ground per hour with the capacity of other Machines. There is no other Grinder that will deal with anything like these quantities in the same time.

No.	PRICE	Belt required	Diameter of Pulley	Revolutions per Minute
1	£30	3 inches	8 inches	1,000
2	£60	5 "	12 ,,	900
3	£90	7 "	14 ,,	800

I chief feature of this Grinding Machine is that it combines the centrifugal with the grinding action, and it can be adjusted to grind to any degree of uniform fineness while in motion.

#### No Screens or Grates are required. Will Grind Wet or Dry Material, Clogging being impossible.

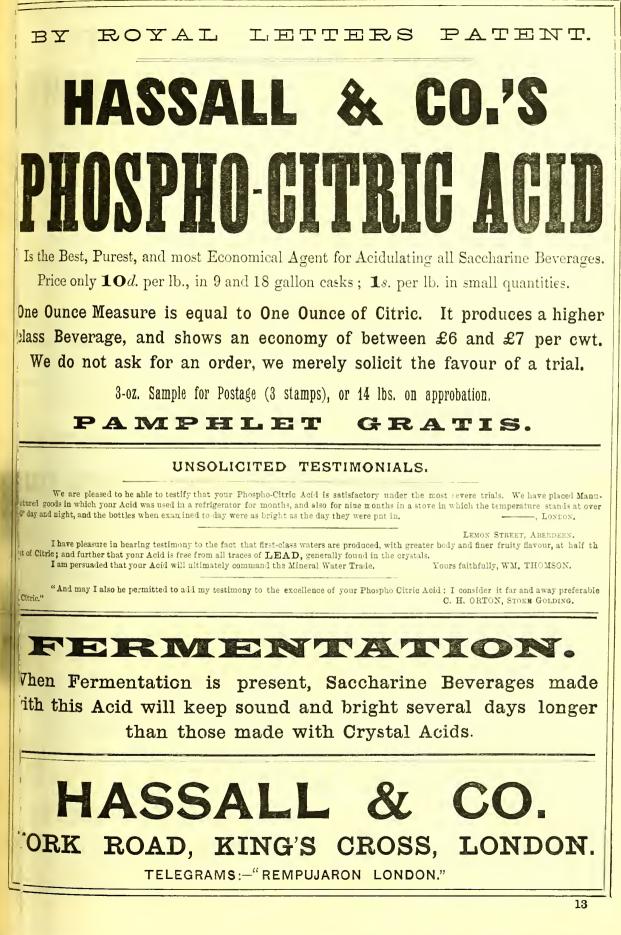
<sup>Soles</sup> of material forwarded to us may be passed through the Michine in the presence of intending purchasers or forwarded by rail.





Price 1s. 6d. each.

BARNETT & FOSTER, Manufactu)178, "Niagara Works," 26<sup>T</sup> Eagle Wharf Road, LONDON, N.





TELEGRAPHIC ADDRESS: COLEMAN, GEORGE'S, NORWICH. St. George's, Middle St., NORWICH, December, 1887.

The Excise Authorities having created a difficulty as to the sale of Medicated Wine containing a certain percentage of alcohol, we obtained in January last, from the Inland Revenue Authorities, permission to sell our Liebig's Extract of Meat and Malt Wine, WITH QUININE, without a Wine Licence, and many Chemists not holding a Wine Licence have sold considerable In order further to meet the quantities. requirements of the trade, we have introduced a Liebig's Extract of Meat and Malt Wine, NON-Alcoholic, made from the juice of the Grape, Liebig's Extract of Meat, and Extract of Malt. This also can be SOLD WITHOUT A WINE LICENCE. Your orders will oblige either direct or through the Wholesale Houses.

Yours obediently,

COLEMAN & CO., LIMITED.

N.B.—The Wine is sold in Bottles, 2/9 and 4/6 each. Trade prices on application.

P.S.—Where the Licence is not held we are willing to pay the entire cost of a Retail Licence (the holder of which can sell any kind of Wines) if an assorted order of 12 dozen is sent us of any of our preparations. List on application. Our Liebig's Extract of Meat and Malt Wine WITH-OUT QUININE commands a very large sale, and is recommended by over one thousand medical men who have sent us testimonials in its favour.

SOLE MANUFACTURERS-COLEMAN & CO., LIMITED ST. GEORGE'S, NORWICH, AND 3 NEW LONDON STREET, LONDON, E.C. 14

## KERFOOT'S PEARL CACHOUS.

THESE beautiful little lozenges, perfectly spheral in form, weighing about 400 to the ounce, of exq site flavour and great strength, are the most popula and perfect breath lozenges ever introduced; unlil the ordinary flat lozenges, these little PEARLS has no angles to attract dust and become soiled with a light handling, consequently they can be carried the purse or pocket, and are altogether more peable than ordinary lozenges.

The unique appearance and flavour of this n elty quickly ensured a large sale, and its success, as ighthave been anticipated, quickly brought to the rontsome worthless imitations, the sale of which call only result in disappointment to all concerned.



are the only genuine PEARL CACHOUS: they a not only better looking, but are double the strength f the imitations, and buyers are therefore requested to rder the original, and thus ensure a perfect article. They are clegantly put up in attractive one-pound t tles, and are an ornament to any Pharmacy. The lowing flavours are always in stock—

Jockey Club Rose Violet Musk Ess. Bouquet Rondoliti Clove link Lavender Price 2s. 9d. per lb. in 1-lb. bo les. Eight bottles sent carriage free to any part of the Kingdom. KERFOOT, MANUFACTURING PHARMACEUTICAL CHEIST, Medlock Vale Works, ROAD, MANCHESTER. LONDON

Free on application.



Ridge's Food sets the babies on their legs, and makes them push along.

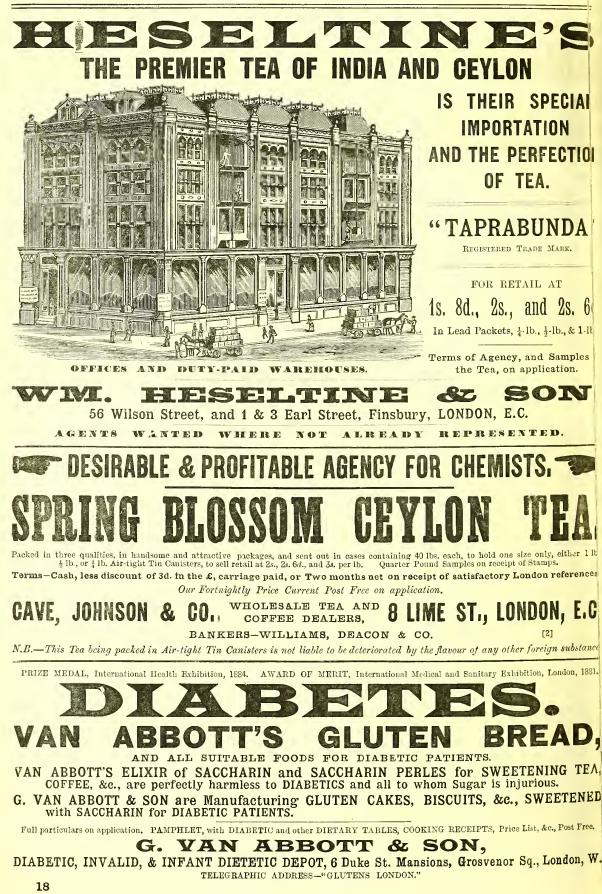
i



# HOLBROOK'S WORCESTERSHIRE SAUCE HOLBROOK'S LONDON RELISH HOLBROOK'S PURE PICKLES

<u>THE BIRMINGHAM VINEGAR BREWERY COMPANY,</u> Limited, have for many years been the Sole Manufacturers of these articles.

The attention of the Company having been drawn to certain advertisements and other documents which have been circulated in the Trade, that the Public are invited to purchase these articles from persons other than the BIRMINGHAM VINEGAR BREWERY COMPANY, Limited, the BIRMINGHAM VINEGAR BREWERY COMPANY, Limited, have already commenced legal proceedings to protect the exclusive rights which they claim to these articles. The Public and the Trade are warned that any of the above articles purchased under this Brand from any Manufacturers except the BIRMINGHAM VINEGAR BREWERY <u>COMPANY</u>, Limited, will not only be spurious, but may expose the person retailing the same to the risk of being made Defendant to Iegal proceedings. THE CHEMIST AND DRUGGIST. SUPPLEMENT MAY 26, 1888





## INJUNCTION.

IN THE HIGH COURT OF JUSTICE, Chancery Division, on the 23rd July, 1887, the case of THE GREAT TOWER STREET TEA COMPANY, Limited, versus LANGFORD & CO., Plymouth, was decided. Mr. Justice Stirling (without calling upon Counsel for the Plaintiffs to reply) gave judgment in favour of The Great Tower Street Tea Company, Limited, and granted a Perpetual Injunction, with costs, restraining the Defendants from packing their Teas in the manner complained of, or in such way as would lead the public to suppose they were the Teas of the Plaintiffs.



ves lla

Registered Trade Marks, Nos. 44,027 and 43,992.

THE ABOVE TRADE MARKS APPEAR ON EVERY PACKAGE.

THE GREAT TOWER STREET TEA COMPANY, Limited, is resolved to protect its Agents in every part of the country, and has instructed its solicitors to proceed in the most peremptory manner against all persons infringing upon its rights. This valuable Agency is a certain source of income—the public ask for the Tea, and Chemist will improve their standing by pushing it.

**TOWER TEA** is a standard quality. It is widely advertised. Absolutely NO RISK to Agents. **APPLICATIONS FOR THE AGENCY** for the Sale of Tower Tea will have prompt attention.



THE CHEMIST AND DRUGGIST. SUPPLEMENT

MAY 26, 18.



v:

vii

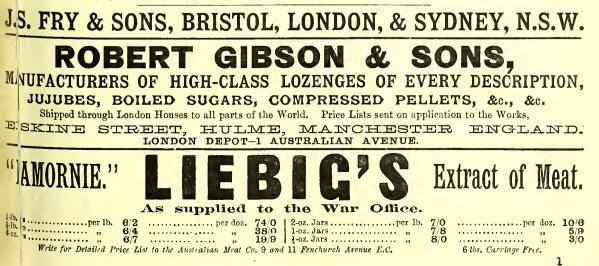
## DE JONG'S CED COCOA OR CHOCOLATE. (PATENT 1897.)

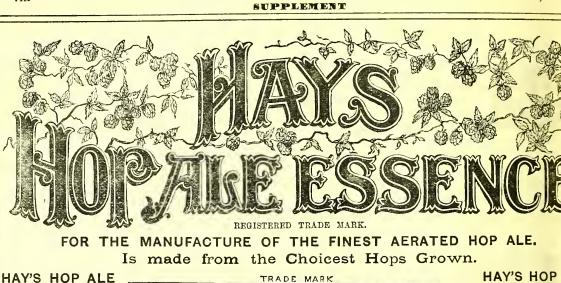
new and wonderfully Refreshing, Delicious, and Invigorating Summer Drink, prepared in one minute from

## E JONG'S PURE SOLUBLE COCOA. (The "Acme" of all Pure Cocoas.)

2-oz. Sample Tins, free of charge, on application by letter, from the Cief Depot of De Jong's Cocoa, 6 & 7 Coleman St., London, E.C.







THE CHEMIST AND DRUGGIST.

### ESSENCE

"Supplies an excellent stomachic, appetising, and agreeable summer drink." Brewers' Journal.

"A beautiful es-sence, has a fine Hop Aroma, and is quite a pharmaccutical triumph." · A The Chemist and Druggist.

"For this Essence a bril-liant future may be antici-pated. It possesses charac-teristics very seldom to he met with."

Mineral Water Trade Review.

"For flavour, strength, and real soluhility, this Essence leaves nothing to be desired." British & Colonial Druggist.



#### HAY'S HOP I.E

"This is an excellen on-Alcoholic beverage." The licet.

"Evolves a delicious ma of Hops."

Medicai ress. "It is a Fine Bter Beer, pouring out vh a rich creamy head

British & Colonial Dr lis t. "Possesses the Arcatio bouquet and pleasant four of the genuine Hor

Mineral Water Trade 1 lew "Is a nearer appros to Bass or Allsopp's Ale lan any non-intoxicants pied. ing it."

Eastern Morning ews.

**U**Ite

Bet 1m

) ID

Ret

Trade Price, 8s. 6d. per lb.; 12 lbs. and upwards, 8s. Quantity required, two fluid oz. to each gallon of Syrup, making 106 10-oz. Bottles.

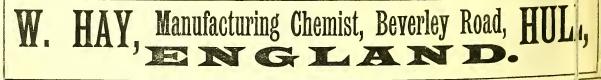


#### FOR THE MANUFACTURE OF THE FINEST AERATED HOP ALE.

"Since Mr. HAY, the well-known Manufacturing Chemist, of Hull, surprised the Pharmaccutical world, some ten years since, by the produc a of hat, until then, had heen thought an impossibility, viz, a perfectly soluble and transparent ESSENCE OF GINGER, nothing he has one has attracted so much attention in this direction as his latest ESSENCE OF HOPS, which, like his other Essences, is a production que in itself. The HOP ALE made from this Essence evolves a DELICIOUS AROMA OF HOPS, and supplies that much long for desideratum of obtainers if a Grant Was attractive. For the product of the prod desideratum of abstainers, 'A Glass of Non-Alcoholic Beer.' We have always felt that teetotallers lahoured under a disadvantage that ought to exist, in having no really decent heverage in the place of Wine and Beer. By this Pharmaceutical triumph of Mr. HAY, this difficulty has beer rercome, and it affords us much pleasure to commend this truly Temperance Drink to the notice of abstainers and non-alcoholic abstainers ke." -Medical Press.

#### [1] SEL

"I certainly remarkable for the purity and reality of its results. Made from the choicest hops, and treated in a manner of which Mr. HAY a choicest hops, and treated in a manner of which Mr. HAY a choicest hops, and treated in a manner of which Mr. HAY a choicest hops, and treated in a manner of which Mr. HAY a choicest hops, and treated in a manner of which Mr. HAY a choicest hops, and treated in a manner of which Mr. HAY a choicest hops, and treated in a manner of which Mr. HAY a choicest hops, and treated in a manner of which Mr. HAY a choicest hops, and the choicest hops, and treated in a manner of which Mr. HAY a choicest hops, and the choicest hops, an to possess the monopoly, this HOP ALE ESSENCE supplies an excellent stomachic, and an agreeable stimulating Summer Drink [be HOP ALE produced by this ESSENCE is of a most refreshing and invigorating character, with all the appetising flavour and delicate ma of its more intoxicating prototype, which it approximates more closely than any similar preparation we have yet tasted. It may be advantage usly taken up as a speciality for which a large consumption may safely he predicted."-Brewers' Journal.



### THE CHEMIST AND DRUGGIST.

	S' REFERENCE LIST AND IN ARING IN THIS ISSUE OF "THE C	
	Index are those at the FOOT of	
This arrangement is nece	ssary in order to meet the require	ments of the Post Office.
Foot of Page           Extract of Herbs 16           CAMS.B	Foot of PageEVANS, SONS & CO.Embrocation TEXT (9)Chysics and Ciparcites 4, 0, Richin and Saline 4.45EVANS, SONS & MASON, LIM.EVANS, LESCHER & WEBB (London)	Foot of Pag           MORRIS & CALLARD         Chemicals           MUMPARD, G. S. Pure Crushed Linseed, TEXT         Muy Another State           MUNDAY, J         Injection Day           MASCIO AVELINE & CO.         Essential Oits           NASCIO AVELINE & CO.         Injection Day           MASCIO AVELINE & CO.         Injection Day           NASCIO AVELINE & CO.         Injection Day           NASCIO AVELINE & CO.         Injection Day           PATERSONS MAN UFACTURING CO.         LIN.           PATERSONS MAN UFACTURING CO.         LIN.           PATERSONS MAN UFACTURING CO.         LIN.           PETERSON, M. & CO.         Cod-liver Oil with Mait Errard           PETERSON, M. & CO.         Frequencia, 6c.           POCOCK, KEEPIL & CO.         Forent and Trace Marks           RAIT, GEO L.         Analytical Chemists           RAIT, GEO L.         Maalytical Chemists           RAIT, GEO L.         Maalytical Chemists           RAIT, S. & CO.         Marking Apporatus           RAIT, S. & CO.         Marking Apporatus           RAIT, S. & CO.         Foreign Chemists           ROBERS, DR.         Concentrated Waters           ROBERS, S. M.         Concentrated Waters           ROBERS & CO.

ETIC ACID unn and Co. orris and Callard (Salts)

#### RATED AND MINERALS

MINUERALS Imas, B. bolinaris (Hunyadi, Fried-ichehall, and Apollnaris) urnett and Foster emista' Advantation urant, Geo, & Co. lis (Buthin) ans. Sons and Co. y, W. useall and Co. (Cibric Aeld Norbho) uyadi Janos ris and Koyle ribury and Brewn ris and Co. (Bourne) rior, T. and F. J. confail Son. Geo GINGER ALE, J

ITTO PLANT BYPHONS and ESSENCES.] ANALYSIS nett and Foster Bait, G. L. F. C.

Bratby and Hinchliffe Bnsh, W. J., and Co. (Foam Producer. &c.) Favarger. H. Gneret Frères Tyler. Hayward, and Co.

#### AGENCIES ABROD

AGENCIES ABROD Appleby and Halse Australian Drug Co. Campbell, N. S., aud Co. Cocking (Japan) Evans, Sone and Mason (Lim.) (Canada) Felton (Melbonne) Fougera (New York) Kempthorne (New Zealand) Macnaughton, F. J. Peake, Allen and Co. Roberts (Faris, &c.) Roberts (Faris, &c.) Rokar(Melbourne) Rharland & Co.(AucklandN.Z.) Soul, W. H., and Co.

ALKALOIDS Howards and Sons (Cinchona) Smith, T. and H.

ALMILAJ Mercs, L.

Rait, G. L., F..C.8.

AMMONIA May and Baker White, A., and Sons

#### APPARATUS

APPARATIOS Bracher & Co. (Automatic distilling) Brinjes and Goodwin Clarke, S. (Food Warmer' May, Itoberts (Water-bath) Orme (Scientific) Perken, Son and Rayment (Scientific) Rothermel, Panl (Vinegar)

BANDAGES Bailey, W. H., and Son Bole Hall Mill Co. Robinson and Sons

BATH GLOVES Maw, Son and Thompson

#### BOXES

Aastin and Co. (Cadboard) Irvin and Sellers Metz, Paul (Willow) Noakes, B., & Co. Self-Opening Tin Box Co. South Wales Canister Co.

BICARB. SODA Gaskell, Deacon and Co. Howards & Sons May and Baker BEESWX & HONEY BOTTLES Bowdlear and Co.

BISMUTH, PREP. Burroughs, Wellcome and Co. Hearon, Squire and Francis Hewlett and Sons Mowards and Sons May and Baker Symes and Co.

BLOOD MINTURE Beedzler, J., and Co. Lincoln and Midland Connties Drug Co.

### BOOKS

BOOKES Baily, J. Bell, G., and Sons Churchill, J., and A. Dobell, Dr. James, Dr. Prosser James, Dr. Prosser Johuson, J. and J. H. Keene and Ashwell Kimpton R. Lewis, H. K. Loisette, Professor Longmans, Green and Co. Renshaw, H. Robinson, G. H. Wells. G. Wright, J., and Co.

BOTANIC BEER Newhall and Mason

BOTTLES Barrett and Foster Bratott and Foster Bratott and Foster Breiti's (Lim.) Brooks, Feel · Perfumers) Dunlon, Mitchell and Co. (Tubes) Hearn, E. A., and Co. Isaaces and Co. Kilner Bros. Lang, J., and Co. Maw, Son and Thompson Poths Tonsond " W. " Brand

BRUSHES

Dnkas and Co. Sutton, O., and Co. (Tooth)

BUTTER COLE, &c. Bash W., and Son (Mari-goldine) Johnsen and Jörgensen Oldfield, Pattison and Co. Tomlinson and Hayward

#### CAMPHOR

Howards and Sons Keene and Ashwel (Homœo-May and Baker [pathic) Maw, Son and Thompson 23

I PUN

Anni Born

P RES

scill SAC

12

# Ha:

Alle

SAT

Hat) SAI

contil. SE

titiy

ί¢Ϊ 2

INES

202

SC

3

SΣ 1008, | F

25H) ST

iliates) SI

Carlon 50

Ū2

DÍL XA

3

LITS S

IR

PR

ĒW

5

大 ちちちちちち

100

1

& Desig

SAI

MUSTARD EXTRACT, MEAT INSECTICIDES Banner, E. R. (Oil) Johnson, J. H. and S. ( 1. Oil) Australian Meat Co. Brand and Co. Coleman and Co. Liebig Co. Viking Food and Essence Co. Keating, T. Sanford Steiner and Co. NEPENTHE RETCHUP Ferris and Co. Tyrer. P. LARD EXTRACTS, FLUID NIGHT LIGHT &c. Allen and Hanburys Barber, G., and Co. Burgoyne, Burbidges Evans, Sons & Cu. Flstcher, Fletcher & Stevenson Hearon, Squire and Francis Oldfield, Pattison and Co. Ewen, J. Clarke, S. LAMPS,LIGHTS,&c. OILS, PAINTS &c. Colthnrst and Hardin, Gregory, W. (Devonsh Cills) Vogeler, The Charles , Co, (St. Jacob's Oil) Clarke, Samuel ("Fairy' LEECHES Fitch and Nottingham Potter and Clarke FEEDING BOTTS. Hearn, E. A., and Co. Kilner Bros. Maw, Son and Thompson May Roberts and Co. Pocock, Keevil and Co. Thompson. Millara Thompson. Millara OINTMENT B.SES LIME JUICE Chesebrough (Vaseline) De Pass, E. A., & Co. (Pedira) Grindley (Petroleum Jy) Idris and Co. Kernick and Son LINSEED **OPTICIANS** Idris and Co. Mumford, G. S. Darton, F., and Co. Perken, Son and Raym: Raphael, J., and Co. FILTERING Doulton and Co. Mawson Swan, and Weddell Slack & Brownlow Silicated Crbn Fltr Co. LINT Liverpool Lint Co. Maw, Son and Thompson Robinson and Sons Seabury and Johnson PAPAIN FINHER Kuhn, B. FLY PAPERS PARALDEHYD Ford, Shapland and Co. Wilson, S. LOZENGES LOZENGES Allen and Hanburys Blyton, Bage & Co. (Medicated) Evans, Sons and Co. Gioson, R., and Sone (Manfrs.) Hill and Son Houde, A. (Hydrochlorate of Cocaine) Kerfoot, T. Lorimer and Co. Martindale, W. (Nitro-Glyce-rine Tablets) Warrick Brothers (Heliotrope Pastilles) Example Comparison of the second second Cocaine) Martindale, W. (Nitro-Glyce-rine Tablets) Martindales (Medicated) Patternt MED NS. Armbrecht, Nelson & Coca Beecham (Fills) Beecham (Fills) Beecham (Sills) Edvards and Son Lorimer and Son Patternt MED NS. Armbrecht, Nelson & Coca States Dahl's Dispepsie Cake Edvards and Son Zimmermann, A. and FOAM PRODUCERS Bush, W. J. and Co. FOOD WARMERS Clarke, S. FOOD (Infants & Invalids Allen and Hanburys Benger's Pancreatised Brand and Co. Burroughs, Wellcome (Pepton-islne) Dahl's Dispepsia Cakes Goodall, Backhouse and Co. Hearon, Squire (Malted) Lazenöy, E., and Son Liebig Co. Mottershead and Co. (Benger's Food) Nestle, H. LOOFAHS Elste, A., & Co. (Bath Gloves, Belts, and Socks) May, Roberts and Co. Sanger and Sons Nestle,H. Ridge's, Dr., Food Spring and Co. (Kef.) Van Abbott (Diabetic) MACHINERY **MACHINERT** Birmingham Machinists' Co. (Prinuing) Brinjes and Goodwin Carter, J. H. Dale, J., and Son Hardy Patent Pick Co., Lim. Melin, C. (Cansulng) Sherwin, G. E. Werner and Pieiderer FORMULÆ Brooks, T. GINGER ALS Adams, B. Hay, W. (Essence) Mills, R. M. MAGNESIA Banner, E. R. (Citrate) Bishop, A., and Sone Bush, Son and Co. Dinneford Henry, T. and W. (Calcined) Lorimer and Co. (Citrate) Oscar Andreae and Co. Fink Martindale, W. (Nitro-Glyce-rine Tablets) Maw. Son and Thompson Price's Candle Co. GRANULAR PREP. Bishop, A, and Sons Burroughs, Wellcome and Co. Bush, W., and Co. Evans, Sons and Co. Hearon, Squire and Francis Hill, A.S., and Son Wright, Layman and Umney Allen and Hanburys Burroughs, Wellcome and Co. (Malt Extract "Kenler") Hearon, Squre and Francis Lorimer and Co. Paterson's Chemical Manu-facturing Co. GUMS Fink (Arabi :, GUTTAPERCHA MENTHOL A 1 Menthol Depot. A. W. Shirley, Proprietor Banner. E. R. Castle Menthol Co. Duncan, Flockhart HAIR PREP. Bates, F. W. (Frizzetta) Brodie, J. (Imperial Hair Dye) Capper, W. B. (Crinidone, Cheechrough Mnfz. Ca. French Hygienic Co. Castle Menthol Co. Cocking and Co. Hockin Wilson and Cn. Maw, Son and Thompson Mikado Menthol Co. Shirley, A. W. Todd, A. M. (Crystal Oil of Peppermint) HERB BEER EXTS. Adams, B. Newball and Mason Oldfield, Pattinson and Co. Potter and Clarke MARKING INKS Barber, G., and Co. (Crimson) Christian, J. Hickisson, J. HERBALISTS Adams, B. Newball & Mason(Extof Herbs) Poter and Clarke ... Wilkinson, A., and Sons (Com-pressed Hops) MEDICINE CHSTS Day, Son and Hewitt (Veterin. Day and Sons HOMEOPATHIC MERCURIALS Epps and Co. Keene and Ashwell Leath and Ross Thomnson and Capper ESSENTIAL OILS Bush, W., Sou and Co. Bush, W., J. (Lemons, &c.) Cocking (Japan Peppermint) Evans, Sons and Co. Mascio, Aveline and Co. Rocke, Tompeitt (Eucelyptus) Stallman and Fuuron Bivension and Howell Symes and Co. Todd, A. M. Yogt, G. Warrick Brothers Witkinson, A., and Sons (Com-pressed) EOP ALE ESSENCE Hospital Hospital Hoppital Hoppital Undon 100 Burds, A. M. Yogt, G. Warrick Brothers Witkinson, A., and Sons (Com-pressed) EOP ALE ESSENCE Hospital Hospital Hospital Duncan, Flockhart and Co. Dunna nd Co. Prellows Bush, W., and Co. Howards and Sons May and Baker METHYLATED SPIRITS Barrongh, J. Harvey, J. & W., and Co. Jones and Co. Macnair, J. & D. Phillips, G., and Co. METHYLENE Duncan, Flockhart and Co. Dunn and Co. Fellows Rubbins, J., and Co. MICROSCOPES

Fellows Fletcher, Fletcher & Stevenson Symes & 'o. Swann, H. H. (Dr. Churchill's) Typke and King Yeatman, F. J. IN R. [bee MARKING.]

Darton, F., and Co. Perken. Son and Rayment MIXING MCHNRY Bracher and Co Brinjes and Goodwin Burroughs, Wellcome and Cn. Carter, J. H. Sherwin, G. E. Werner and Pfeiderer

MORPHIA Macfarlan, J. F., and Co. Smith, T. and H.

Bewley and Draper Duncan, Flockhart

Christy, T., and Co. Godfrey and Cooke Maw, Son and Thompson Teogood, W.

PATENT MED NS. Armbrecht, Nelson & C Wine) Atkinson (Infant Press) Beecham (Pills) Beecham (Pills) Beecham (Pills) Beecham (Pills) Crouch F. B. (Wafers Dahl's Dispersia Cake Edwards and Son Evans, Leschor (E'ley's Connier Adjuncts, asted Pills, &C.) Fenning's (Pills and 0).) Hologyer (Pils and 0).) Hologyer, Pils and 0... May, Roberts and Co. May, Roberts and Co. Marcs, L. Munday, J. (Injection ]) Newbery and Sons Rati and Co. (Meuphr 10) Richters, Dr. (Pain E (er) Roberts (Foreizn) Singleton's Eye Ointmu Thompson. Millard and Vogeler, The Charles Co Wilson, W. (Toothache Pellets) Alleine Ber M AC T

PERFUMERY.

FANCT SOAL Atkinson, J. and E. Atkinson, J. and Co. Biggleston, E. R. Burroughe, Wellcome (Co. Chesebrough Manufact (Co. Crown Perfumery Co. Du Boyer, Marie Jurrant, deo. Ewen (Soerro) Mark, Son and Thomps Maw, Son and Co. Mark, H. Mark, B. (Law, W.) Mark, B. (Law, W.) Tratt, R. C. Warrick Brothers Wearlisk Brothers Wearlisk Brothers Wearlisk Brothers Wearlisk Brothers Wearlisk Brothers Wearlisk Brothers FANCY SOAL

PEPPERMINT

Todd A. M. (Crystal hite Oil of Peppermint)

PEPSINE, &C. Burrougha, Wellcoms ; Fletcher, Fletcher&Stoson Newbery (Inglavin) Warner and Co. (In vin) Zimmermann

PEROX. OF HYR. Dunn and Co. Robbins and Co.

PHARM. PREP PHARM. PREP Allen and Hanbury Barron, Squire and Co. Benger's Burgoyne, Burbidges Burgoyne, Burbidges Burgoyne, Burbidges Jouncan, Jockhart Ferris and Co. Jouncan, Jockhart Ferris and Co. Hearon, and Sons re Hill, A.S., and Son Hooper, B., and Co. Howards and Sons Keita (Conc. Tinctures Kuhn, B. Martin dale (Nitrogiyos Sonthall Bros. Typke & King Woolley, Sona Wyleys (Varicas) (auoi r

CORKS CAPSULES Denonal, J. (Medicinal) Duncan, Flockhart and Co. (Cascara Sagrada) Durant, T., and Co. Evans, Sons and Co. Mooper, B., and Co. Maw, Son and Thompson Benito, Remns and Co. Bishop and Warden (Socks) CORN CURES Maw, Son and Thompson Robinson, B. CONCENTD. LIQS. DITTO (MTALLIC) Evans, Sons and Co. Fletcher, Fletcher & Stevenson Keith, B., and Co. Thompson, H. A., and Son Betts and Co. Melin, C. (Machine) CARMINE COTTON WOOL Bush, W. J., and Co. Sellers Haynes G., & Co. (Absorbent) Maw, Son and Thompson Robinson and Sons (Absorbent) Sancer, J., and Sons Seabury and Johnson CATALOGUE Evans, Sons and Co. (Price Current) Current) Maw, S., Son and Thompson (Price Current) Newbery, F., and Sons Sanger and Son Tho npson, Millard and Co. DENTIFRICES Du Boyer, Marie Jewsbary and STOWN Newbery and Sons Satton, O., and Co. Thompson and Capper Woods. W. (Areca Nut) CHEMICALS CHEMICALS Benactt and Jenzer Bush, W. Son and Co. Dunn and Co. Fletcher, Fletcher & Stevenson Gaskell, Deacon and Co. Birther, Fletcher & Stevenson Gaskell, Deacon and Co. Benacht, Als., and Sons Pharma-centical and Sons Pharma-centical and Sons Pharma-Morris, Callard, and Co. Mosra, Callard, and Co. Oscar Andreae and Co. Stern, G. and G. Pumiline) Summer, R., and Co. Smith, T. and H., and Co. Typke and King White, A., and Sons Zimmermann. A. and M. DISINFECTANTS Government Sanitary Co. National Chemical Co. New Carbolic Sanitary Co., Ld. Sanitas Co. CHALK PRECIP. Dinn and Co. Lavermore, Ang. and Co. White, A., and Sons CHEST PROTCTRS Maw, Son and Thompson Wood, V. CHL. OF POTASH (Compressed Tablets) Burroughs, Wellcome and Co. Hooper, B., and Co. CHLOR. OF GOLD Oscar Andreae and Co. Rowland, L. Farina, J. M. CHLORDE OF LIME Government Sanitary Co. National Chemical Co. New Carbolic Sanitary Co., Ld. CHLORODYNE Blyton-Bage and Co. (Twem-low's) fow's) Burroughs, Wellcome and Co. Davennort (Browne's) Thomas, Wakeham and Co. (Dr. Henry's) Towie, A. r. CHLOROFORM, &c. ENEMAS Duncan, Flockhart Macfarlan, J. F. Smith, T. and H. Zimmermann CIGARETTES Evans, Sons and Co. French Hygicnic Co. (Coca) CITRIC ACID Hassalls (Phospho' Nascio, Aveline and Co. COCAINE HYDRO. Houde, A. Howards and Son# McKesson and Robbins COCA WINE Armbrecht, Nelson and Co. Evans, Sons aud Co. French Hygienic Co. (Cigar-ettes and Tobacco) COCOA & CHOCLTE adbury De Jong's Pure Soluble Cocoa De Jong's Pure Soluble Coc Fry (Maltea) Van Houten's Cocoa COD-LIVER OIL **COD-LIVER OIL** Allen and Hanburys Brekke and Howlid Burgoyne (Peteleine) Burroughs, Welkome Evans, Sons and Co, Hill, A. S., and Son Lornner and Co. Smith, T. J. Woolley, Sons and Co. Wright, Layman and Umney **COFFEE** Symington Cn. (CoffeeEst.) CLLPSIBLE TUBES Betts and Co. Bronks, H., Peel and Co. COMP. ESSENCE ETHER Potter and Clarke CMPRSSD MDCNS Allen and Hanbury's Burroughs, Wellcome and Co. Hooper, B., and Co. CONFECTIONERY Bage, Blyton and Co. Gibson, R., and Sons Kerfoot, T. Warrick Brothers

 $\mathbf{24}$ 

DISINTEGRATRS Carter, J. 11 Hardy Patent Pick Co., Lim. DOG MEDICINES Spratts (Patent) DRUGGISTS' SUN. DRUGGISTS' SUN. Avrion and Saunders Bishop & Warden (Cork Socks) Evans, Lescher and Weoo (Hawley's Counter Adluncta) Evans, Sone, and Co. (Savars) Hill, A. S., & Son Idris and Co. Lynch and Co. May, Roberts and Co. Mewbery, F. and Sone Sanger and Sone Schutze and Co. Thompson, Mullard and Co. Thoogood, W. Wood, Vincent DRUMS, CANS, &c. Noakes and Cc. EAU DE COLOGNE EFFERVESCENT Allen and Hanburys' (Saline) Banuer, E. R. Bishop, A., and Sons Evans, Sons and Co. Fink Martindale, W. (N rine Tablets) ELECTRIC APPAR. Colthurst & Harding (Electric Light Oil) Darton, F., and Co. Orms and Co. EMBROCATION Clar ., W. Ellinan, Sons and Co. Ingram and Son Lynch and Co. Maw, Son and Thompson Sanger and Son Schutze, F., and Co. ENGRAVERS Barker, W., and Son ESSENCES, FRUIT AND SOLUBLE AND SOLUBLE Bratby and Hinchlife Burgoyne, Burbidges and Co. Bush, W. J. and Co. Hay, W. Son and Co. Lorumer and Co. Lorumer and Co. May and Baker Oldfield, Pattison and Co. Stevenson and Howell Typke and King Typke, P. (Anchovics) Vogt, G. Woolley, Bons and Co. ESCEPTIAL, OLLS ESSENTIAL OILS Duncan, Flockhart and Co. (Chloric) Howards and Son May and Baker Robbins White, A., and Sons EUCALINUM Rocke, Tompsitt and Co. (Anti-septic Poultice and Vinegar) EUCALYPTUS OIL Downie, B. I. P. Co. 1 Ltcker, Fletcher & Stevenson

#### THE CHEMIST AND DRUGGIST. SUPPLEMENT

IOTOGRAPHIC otwright and Grey (owards and Son (Chemicals) erken, Son and Rayment larion and Co. Lay and Baksr scar Andrese and Co.

ASTERS arroughs, Wellcome and Co. suber, W. aw, Son and Thompson , Daimas, A. De abary and Johnson nith, W. F.

LLS (Coated, &c.) lies and Hanburys scham, Thomas vans, Sons and Co. acton, Squire and Francis III, A.S., and Sons opper, Dr. winer and Co. Eksson and Robbins Ovoid-lappide heary sciences LLS (Coated, &c.) sapuled swhery and Sons nger, J. and Sons aith, W. F. uthall. Bres. and Barclay rang. H. H. arnsr. W. R. (Coated) yleys and Co.

LL MACHINES w, Son and Thompson adar, J. W. bertson, J., and Co. (Coating) logood, W. (Coater)

DOPHYLLIN, &c ith, B. and Co. uth, T. and H.

RCELAIN GDS. ths, H., and Co. ogood (E.c. Pots, regist.)

LISHING

umgartner (La Brillantine) adley. Bourdas (Albatum) ark, W. key, John, and Sons INTING

mingham Machinists' Co. were Bros. simile Apparatus Co. rd. Shaplana ana uo. verlock. H. wnsend. J. (Exeter)

(ININE SALTS

wards and Sol s hu, B. amermann

Burroughs, Wellcome and Co. Stern, G. and G. RENNET Benger's (Essence of) Duncan, Flockhart and Co. Johnsen and Jörgenser Oldfield, Pattinson and Co. SACCHARIN Allen and Hanburys Burroughs, Wellcome and Co. SALICINE Macfarian and Co. Smith. T. and H., and Co. SALOL Kuhn, B. SAUCES, PICKLES Birmingham Vinegar Brewery Co. Goodall, Backhouse and Co. Lazonby Harvey's) Tyrer. P. SEA SALT The Maldon Crystal Salt Co. SCHOOLS OF PHARMACY, HOSPITALS, &c. HOSPITALS, &c. E Habargh Classes Liverpool School Lo adon Homeopathic and Medical School Manchester College South London School of Pharmacy, Lim. The School of Pharmacy Tully, J. Westminster College SEALING WAX Fisher, Clark and Co. Waterston, G , and Sons SELTZOGENES Idris and Co. May, Roberts and Co. SHAVING Dukas and Co. (Brushes) Hoyenden & Sons Moyd's Euxesia Lloyd's, A. S., Euxesis SOAP (SOFT, &c.) Chiswick Soap Go. Maw, S., Son and Thompson Pears' Soap Stern, G. and G. (Pumiline Toilet and Sanitary)

PUMILINE

SHEEP DIP Bigg, T. Cooper, W., and Nephews Grindley and Ca. Tomlinson and Hayward SMELLING SALTS SYRUPS Shirley, A. W SHOP FITTERS Bowling and Govier Bygrave. J. and W. Corean, J. R. Howlett. 8. Natali, E. (Show Cases) Yates, W. S. SPECTACLES Botwright and Grey Darton, F., and Co. Raphael and Co SPIRIT Boord and Son Burrongh (Pure & Mithyl.) Harvey, J. W., and Co. Jones and Mason (Methyl.) Mennair, J. & D. Phillips and Co. Smith, Stephen and Co.

SPONGE Creaswell Bros. Creaswell, R., and Co (Lim.) Evans, Sons and Co. Maw, Son & Thomson (Bags) Peterson, M., aud Co.

STAMPS (RUBBER) Pollard. A. W. Richford, E. M. Van Houten and Co.

STOPPERS Anstin and Co. (Sprinklers) Barnett & Foster (The Eclipse) Brooks, Peel (Sprinklers) SURGICAL

Ayrton and Saunders Bailey, W. H., and Son Hisywood, J. H. Ingram and Son Liverpool Patent Lint Co. Maw, Son and Thompson Robinson and Sons rhompson, Millard and Co. Woolley. Sons and Co.

STARCH Critchley (Gloss' STROPHANTHUS Burroughs, Wellcome and Co SUGAR

dibson, R., and Sons SYPHONS Barnett and Foster Idris and Co. Kilner Bros.

SYRINGES Maw, Son & Thompson, S. Sumner, R. and Co. Fletcher, Fletcher(Liquore) Idris and Co. Swann, H. H.

TARTARIC ACID Middleton, Kirkpatrick and Barr TEA

Cave, Johnson and Co. Gt. Tower St. Tea Co. Heseldine, Wm., and Son Kearley and Tonge Pearse and Wheatley Walker and Dairymp'e THERMOMETERS

Darton, F., and Co. Maw, Son and Thompson Perken. Son and Rayment Raphael and Co.

TIN CANISTERS Noakes. B., and Co. South Wales Canister Co.

TOILET FIX TURES Downing, J. S.

TOOTE PASTE Jewsbury and Brown Maw, Son and Thompson Sutton, O., and Co. (Black) Woods, M. (Arecs)

TRADE MARKS Horn and Son Pritchard & Co.

TRUSSES Bailey, W. H., and Son Hsywood, J. H. Lynch and Co. Maw, Son and Thompson

TYPE-WRITING Facsimile Apparatus Co. Pollard, A. W. The Universal "Simplex ' Type-Writer

URETHANE Howards, Sons and Co.

VALUERS AND TRNSFR. AGNTS Baker, P.C. Orridge and Co Tomlinson and Sons VARNISH

Clark, W. Colthurst and Harding

VACCINE LYMPH Association for the Supply of the Pure

Battle, J. R. Sanford and Son Steiner and Co. VETERINARY VETERINARY Bieg, T. Corner, R. (Devonahíre Oils Day and Sons Day, Son and Hawite Gregory, S. W., V essio Sudorifie) Gregory, W. (Devonshire Oils) James, W. H., Allster) Spratis (Dres) Vegeler, The Charles A. Tominson and Hayward VINECAR Demoter Viewen Devo Birmingham Vinegar Brewery Co. Rothermel (Making) WAFERS Crouch, F. B. (Damiana) WHLESLE & EXPT

VERMIN RILLERS

DRUGGISTS Allen and Hanbarys Barron, Squire and Co. Burgoyne, Barbidges Bush, W., Son and Co. Evans, Sons apd Co. Evans, Sons apd Co. Evans, Sons and Masor (Lim.) Events, Sons and Co. Ferris and Co. Harker, Stagg and Morgan Hearon, Squire and Francis Hewlett and So Hewiett and So Lowiner and Co. Hewiett and So Corimer and Co. Hill, A. S., and Son Oldfield, Pattison and Co. Potter & Glark et America, \$c.) Southall Bros. and Barcias Baumer, R., and Co. Symes and Co. Thompson, Millard and Co. Thompson, H. A., and Son Willows, Francis, and Butler Woolley, Jas., Sons and Uncy Wyleys and Co. WINDOW TABLTS Carsan, J. R. (Enerayed) Corsan, J. R. (Engraved)

WINES AND SPTS WINES AND SPTS Boord and Son Coleman and Co. Durrant, G. (Orange) Goodall, Backhouse and Co. Idris & Co. [(Quinne Wne) Ingram and Royle Phillips, G., and Co. (Pure Spirits of Wine) Spirits of Wine) Spirits of Conge) WOOD WOOT

WOOD WOOL Sanitary Wood Wool Co.



Label Design Registered under Trade Marks Act.

Vases supplied with Pills only.



THE CHEMIST AND DRUGGIST. SUPPLEMENT

## EAD-QUARTERS FOR SPONGES.



# PINGES FOR THE SUMMER SEASON.

CRESSWELL BROTHERS make a speciality of the best Toilet and Bath ponges, both bleached and unbleached, for Druggists. All buyers who equire Sponges of good shape, good texture, and strong fibre will find that resswell Brothers' goods combine those characteristics. A considerable aving will be effected by dealing direct with Cresswell Brothers, as they re the only firm who can place their goods straight into the shop of the stailer from the hands of the fishermen.

SAMPLE CASES SENT ON APPROVAL.

Bleached Sponges are always sent, except when unbleached are specified, for it is found that Cresswell Brothers' bleached inges wear as long as the unbleached, and are more saleable than the latter. Cresswell Brothers' process of cleaning is not injure the sponge. (Vide Pharm. Journal.)

Largest stock of unbleached sponges in cases, &c. 4,500 Cases received since January last.

ving Establishments at Ægena & Hydra, Greece; Calymnos & Smyrna, Turkey; Nassau, Bahama Islands; & Key West, Florida. SOLE AGENTS FOR THE CUBAN SPONGE FISHING COMPANY.

Branches at 3 ALBION CRESCENT, GLASGOW; 11 WETERINGSTRAAT, AMSTERDAM. GOVERNMENT CONTRACTORS.

AGENCIES IN ALL THE MOST IMPORTANT EUROPEAN AND COLONIAL CENTRES.

WRITE for NEW EDITION of ILLUSTRATED PRICE LIST.

- **RESWELL BROTHERS, 1 & 2 Red Lion Sq.** (next to Church), LONDON, W.C.
  - No connection with a Company trading under a similar name in the same square.

xiii

MAY 26, 1888

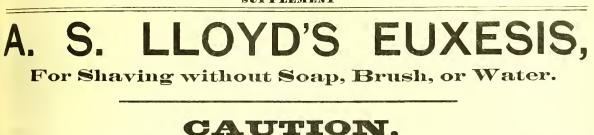
legt

atio

PU



THE CHEMIST AND DRUGGIST. SUPPLEMENT



The only Genuine has a yellow label printed ONLY in Black Ink, and bears the original address of the late inventor, "27 Glasshouse Street, Regent Street," the proprietors having purchased, ander an administration suit, the Secret, Trade Mark, Goodwill, and Premises:



29

XV



thiping or

fat bat agr Trib young

Ta all

loids" at

eColorate

125 125 1

the is so

its of w

Merchants, Shippers, and the Wholesale Houses in the Trade are also supplied by Messrs. BURROUGHS, WELLCOME & CO., Snow Hill Buildings, London, E.C.; and Messrs. HOCKIN, WILSON & CO., 38 Duke Street, Manchester Square, London, W.

#### THE CHEMIST AND DRUGGIST. SUPPLEMENT

# TABLOIDS.

LONDON

MAY 26TH

1888.

### " Tabloids."

Medically, the demand of the age is for medicines which do not unnecessarily offend the palate, smell ffensive, or derange the stomach. There is also equired more uniformity, greater accuracy, and erhaps safer methods in the administration of drugs. Repeatedly has it been urged that to punctiliously egard the palate in health, and as studiously disegard it in disease, could have no possible foundaion in reason or common sense, and beyond a doubt he leading men of the profession are of one opinion n this subject. If a fastidious patient be annoyed very time she has to take her medicine, it may not e long ere she changes doctors. In the case of hildren, successful medication must largely depend pon the form in which medicines are given. Comressing a youngling's nose, holding the head between he knees, whipping or otherwise forcing it to take a auseous mixture are hardly measures conducive the welfare of a sick child. There is no gainaying the fact that agreeable medication only should e adopted with young children, no matter what may e the opinion with regard to adults. No one likes have the palate offended—especially in sickness ith bad-tasting drugs, any more than one likes bad dours or the prick of a pin. To a delicate child ven the prick of a pin may be quite as acceptable as nauseous malodorous medicine. Verbum sat ipienti.

The Tabloids present many and very substantial lvantages over all other forms of medicines yet troduced. First of all, they are made with the ure drug only, and are not contaminated with edless and objectionable excipients. They do not, erefore, like pills, change their condition and come insoluble with time; nor do they, on the her hand, crumble like the imitations do, care ing taken to compress them with sufficient force to event their falling to pieces.

The "Tabloids" are compressed " hard and soft," e regard being paid to the purpose for which they e to be used. Those designed for dissolving in the outh, like Chlorate of Potash, Chlorate of Potash d Borax, and Voice Tabloids are made very hard; ule those destined for internal administration e less dense, and quickly disintegrate, such as smuth Subnitrate, Manganese Dioxide, Charcoal abloids, &c. Others of the more lightly comessed Tabloids dissolve with the greatest readiness : t example, the soluble Quinine Bisulph. dissolve nost as quickly as they touch the water, and it may observed incidentally that this renders them

initely cheaper than, and preferable to, the ordinary linine, which is so insoluble that every part reires 740 parts of water to dissolve it. The Sodium

Bicarbonate "Tabloids" are as pure and active as this salt can be, a sufficient dose of it not failing to relieve a "Sour Stomach." The Potassium Bicarbonate "Tabloids" are likewise an eligible preparation, pure and reliable-this salt, as is well known, enjoying precedence over Sodium Bicarbonate in those cases where the "acidity of the stomach" is ever recurring and chronic. This is the salt par excellence in the indigestion from fatty acids, to alkalise the urine, and eradicate the causes of " chronic acidity."

There is an old adage that Soda is the salt for the Liver, and Potash for the Kidneys. Certain it is that for whatever purpose required, the Soda and the various Potash Tabloids do their work well.

The salient points of the "Tabloids" are many, but not one of them is more important than the one that they are easy to swallow. The reason of this is obvious. Not being spherical but lenticular, they do not roll about the mouth and stick in the throat like pills. Who cannot recall his own expe-riences when as a child he tried repeatedly and almost in vain to swallow a pill. Had our forefathers made a pill of any other shape than round, they would have facilitated a thousandfold the taking of medicine by patients. It requires much experience for a tongue to handle a pill, and a peculiar knack to get it down! The most difficult form of drug to swallow is a pill.

The "Tabloids" furnish all the advantages of pills, and none of their disadvantages. They are portable. easily carried in the waistcoat pocket, and can be taken while following the daily avocations. A most noteworthy feature about them is that accidents are not apt to happen, for the dose of each is accurately apportioned.

**LUST OF** " Ammon. Chloride, 35, 8 and 10 gr. Ammon. Chloride, 35, 8 and 10 gr. Antipyrin, 5 gr. Bismuth Sub-nit., 5 and 10 gr. Caffein Citrat., 1 gr. Cascara Sagrada Ext., 2 gr. Catharite Comp. U. S. P. Chloral Hydrate, 5 gr. Cheononine Scillette, 2 gr. Consense with Potash and Borax. Jpecae. Avolptum (Dover Fowd.), 5 gr. Iron and Quinine Cit., 3 gr. Laxative Vegetable. Lithia Carbonate, 2 gr. Manganese Dioxide, 2 gr. Nitro-Glycerine. Pepsin Fure (Fairchild). Pepsin Succharated, 5 gr. Potash Chlorate S gr. Potash Chlorate S gr. Potash Chlorate, 5 gr. Potash Merdala, 5 gr. Potash Chlorate, 5 gr. Potash Marcella, 5 gr. Potash Marcella, 5 gr. Potash Chlorate, 5 gr.

#### LIST OF "TABLOIDS."

 fQuinine Sulph., 1 gr.

 Arzenic, 120 gr.

 Arzenic, 120 gr.

 Trychnine, 130 gr.

 Rhei 200 gr.

 Strychnine, 1, 3 gr.

 Rhei and Magnesia, 5 gr.

 Rhei and Soda, 5 gr.

 Rhei and Soda, 5 gr.

 Saccharin, 4 gr.

 Soda Biczthonate, 5 gr.

 Soda Chlorate, 5 gr.

 Soda Sulyho-carbolate, 5 gr.

 Sodia Sulyho-carbolate, 5 gr.

 Sodium Iordide, 5 gr.

 Sodium Iordide, 5 gr.

 Strophanthus, 2 minims of Tinet. in each.

 Tanin.

 Test Tabloids.

 Fre. Pyrophos., 2 gr.

 Quinime, 1 gr.

 Stroyhanthus, 2 minims of Tinet. in each.

 Tinitrine (Nitro-glycerine), 1/100 gr.

 Trinitrine and Amvi Nitrite.

 1/50. Trinitrine and Amvl Nitrite. Trinitrine Comp. Carps Comp. Mitrite of Amyl. 4 gr. Menthol, 1/50 gr. (Menthol, 1/50 gr. Voice (Potash, Borras, and Cocaine). Zinc Sulpho, 1 gr. Zinc Sulpho carbolate, 2 gr. Zymine Tabloids. Zymine Comp. Tabloids.

URROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.

d



家園

3.0700

NUNT

25DA.p

to the co

SAFET OF

i alt the p side mbert Dateste

新聞

Siste II

aliquite

lion for the Solar Autoph

italiati

TO SEL

inti

the index a la all a la all a la all a la all ball a la all a la alla all a

the set of the set of

dide:

UKS (

均此

11

UR



May 26, 1888.]

PRINCIPAL OFFICE, 42 CANNON STREET, LONDON, E.C.

BRANCH OFFICE

NORMANBY CHAMBERS, MELBOURNE.

Published every Saturday.

Subscription 10s. per year, payable in advance; dating from the commencement of any month.

Pest free to every country in the world. Single copies, 4d. each,

Supplied only to persons connected with the Trade.

For Australasian subscribers the subsidiary journal THE CHEMIST ANJ DBUGGIST OF AUSTRALASIA is included.

#### Hiterary Contents.

Benzole: a Caution	697
Gyreepondence	
Onresonance       Gazette         Propularity of Strophanthus;       Gazette         Carriage of Medicines Free;       Medicines Stamp Act	682 688 695 683 688 683 688 683 680 686 680 696 696 696 700 701 684
ports 687 Veterinary Treatment	691

#### POST-CARD COMPETITIONS, 1888.—No. 4.

IT will be recollected that the task set in April was for our competitors to send us predictions of the first, second, and third of the candidates for election on the Pharmaceutical Council in the order which would be assigned to them by the scrutineers. As already announced, we received in all 571 predictions, besides quite a number which came in a day or two too late, and were, therefore, disqualified. Our vote very distinctly foretold the actual result as far as the first candidate went, more than one-fourth of our candidates awarding top place to Mr. Atkins. The second on the official list, Dr. Symes, was placed third by our vote, and our friends curiously failed, as a body, to anticipate the probably unsuccessful candidates-or, in other words, to accurately gauge the estimation of the untried men. Our vote assumed the probable success of Messrs. Wills and Watt, and the failure of Messrs. Martin and Nichol. In both points our guesses were at fault.

Fifty-eight prophets predicted the first and second in the uctual contest; but Mr. Gostling's appearance in the third place unsaddled fifty-six of the soothsayers of the 571. Only two competitors gave the names of the first three in heir due order. The cards bearing these correct predictions were sent by Mr. Griffith, 35 High Street, Weston-super-Mare, and by Mr. T. A. James, care of Mr. W. Hunt, 16 Denmark Hill, Camberwell Green. The guinea is divided between hese gentlemen.

#### POST-CARD COMPETITIONS, 1888.

#### No. 5.

POST-CARDS in this competition must be in our hands not later than Thursday of next week (May 31). All received after the dates we fix are ruthlessly rejected. The usual guinea will be awarded to the person who most correctly anticipates the general vote in regard to

1.	Most	Popular	Perfume.
2.	"	,,	Toilet Preparation.
3.	""	,,	Patent Mcdiciuc for internal use.
4.	,,	,,	" " for external use.
5.	**	**	B.P. Preparation (with doctors).
6.	,,	"	" (with the public).
7.	**	,,	Domestic Remedy.
8.	**	19	New Remedy.

The post-cards need not repeat the words we have printed above; the number will suffice.

We shall count up the votes for the various articles quoted, and shall award the prize to the competitor who most nearly approaches the general decision.

Only subscribers and their employés are eligible to compete.

THE ART OF DISPENSING .- It will be remembered that of the numerous treatises which have been published in THE CHEMISTS' AND DRUGGISTS' DIARIES none have been more popular than those dcaling with the art of dispensing. The eagerness with which those Diaries were bought satisfied us that there was a substantial demand for a work based on the lines of those treatises, and an unceasing series of applications for a reprint which we have ever since received has added evidence of the want. We have decided to meet the general wish, and we are now getting ready for publication a much extended, and generally a newly written, compendium, which will cover the art of dispensing with a fulness which we did not before attempt. The work will be unique in English literature, and will be one of the most useful companions which the pharmacist can have. Fuller details will be published shortly.

THE reading cases which we offer to subscribers are now used by a very large number of chemists, and are found very convenient. They keep together thirteen numbers in very tidy form, always ready for reference. By having two cases in hand the numbers of a complete volume are always available until the time comes for binding. We sell these cases at the office for 1s., or by parcels post 1s. 3d., or two for 2s. 3d. We cannot forward them to any house for en-



closure, nor by any of the carriers, as in the latter case we have to pay for booking.

THE CHEMIST AND DRUGGIST OF AUSTRALASIA, published monthly at our Melbourne office, can be supplied to subscribers outside Australasia at 5s. per annum, payable in advance, and commencing at any date. Chemists interested in the drug trade and the pharmaceutical affairs of the Australasian Colonies will find a full record of all events affecting their occupation in *The Chemist and Druggist of Australasia.* Single copies can be supplied at 6d. each. Application should be made by English or American subscribers to the office at 42 Cannon Street, London.

ordparts, those pre-

hors and socks w

HE BOTTLES

inder, William D 2 Ret, was char

tabade-mark be

lil, with intent t

iz by the Northan

ind Trade Prote

istel water, bear

ablight at a st

ste defendant.

15 TUS BOI & PI

datifica decline.

helad been no in

Ellacene' went in

dish, he did Di Billion was up to

ules had receiv

YEach decided

spit of the defen

blk. E. Starbop

57 pap room, as

it that place. H

leira local reput

"pased of Sir H

i ad the Ber. J

. us promises to

to ad bath have

d Bath; and

Jis Came, of Me

zato the stadio

mared by Mr.

idia was taken

a present were ]

Sea and Nottin

Liter General

ing Su A. Fair ik Chaplin, M.P. & Brazton Hiel

spectatives of

theo having b

2 8pa 1725 a b ino chim a E

lis time last

idat estherin

theiter of the H

int that if it

tite English spas amy of them di

CERT BALT W tation, for the in-

De Speaker rath

the span o

the credited with

C ICI WILL TECOT

abmeenmon th

tile question, "

De yong man the be was at

and the billing

antiad stready i

the strates of the st

### Provincial Reports.

Items of news, and newspapers containing matters of interest to the trade, sent to the Editor, will much oblige.

#### BIRMINGHAM.

THE ANNUAL MEETING of the Midland Counties Chemists' Association will be held at the Grand Hotel, Colmore Row, Birmingham, on Thursday, May 31.

#### BURSLEM.

AN ADVERTISING WAR is proceeding in the columns of the local papers here between the Hanley Drug Company (Limited), who have lately cstablished a branch at Burslem, and whose managing director is Mr. C. F. Fresson, "qualified by 18 years' experience," on the one hand, and Mr. A. R. Fresson, who announces himself as "the only Fresson in the Potteries who is qualified to trade as a chemist and druggist." C. F. Fresson (the Hanley Company manager) cautions the public to buy Fresson's original remedies only from him, and he says :---" This notice is necessary owing to the action of a new importation into the Potteries, who has the good fortune to bear the name of Fresson, and who has had no trouble or expense in making this name popular, and who, by misleading advertisements, wishes the public to believe he is the original Fresson. This self-styled original Fresson was a boy of fifteen when C. F. Fresson (known so well to the public throughout the Potteries and district) commenced business as a wholesale druggist in Hanley, and gave to the public that great boon, genuine drugs and patent medicines at low prices." Mr. A. R. Fresson, in reply, says he does not advertise his patent medicines at cost price in order to sell his drugs and fancy articles at big profits. Every article in the drug trade purchased at his establishment is sold at a reduced price. It is no use the managing director and secretary of the Hanley Drug Company feeling annoyed that Fresson, 30 Queen Street, Burslem, is doing a good trade, because the more he advertises to this effect the more the people will come. If the public will enter into the spirit of this lively dispute and take, or at any rate buy, the physic so liberally provided for them, all will be well-at any rate for the Fressons.

#### CARLISLE.

CRICKET .- The employés of Mr. Joe Todd, chemist, met the Carlisle Co-operative Club one day last week, and defeated them by 44 to 35 runs. Mr. C. Todd was top scorer with 19.1

#### NORTHAMPTON.

CHILD CHOKED BY A FEEDING-BOTTLE TEAT .-- The borough coroner held an inquiry last week touching the death of George Stanton, aged three months, who died on Saturday night, the 12th inst. The mother of the child desired to go up town on Saturday night, and the child at that time being restless in the cradle, she gave it to her hus-band to hold it during her absence. The husband was seated by the fireside, and, being weary with his day's work, hc dropped off to sleep, and was woke by the child choking. There was an impression that if the father had at once attempted to get the teat out of the child's mouth, he might have succeeded. The man, however, was afraid to do any-thing, and he sought a woman to get the teat out; but this the woman failed to do, and sent the father off for the doctor, but the child died before he arrived. The jury returned a verdict of "Accidental death."

#### NOTTINGHAM.

NOTTINGHAM AND NOTTS CHEMISTS' ASSOCIATION.--THE MICROSCOPY OF THE STARCHES.--The last evening meeting of the session was held on Friday, May 18, when Mr. Eberlin gave a microscopic exhibition of starches. Mr. Widdowson, honorary secretary, was in the chair. Mr. Eberlin

prefaced his exhibition by explaining that starch is aubstance very widely distributed throughout the vegible kingdom; it occurs in almost all classes of plants cept the fungi, from which it is entirely absent. The gras of starch are first formed within the chlorophyll grains bey are then infinitesimally minute bodies of a spherical for but as they develop they deviate considerably from this rm. The mature grain consists of a number of layers or rata deposited concentrically or eccentrically around a oint called the hilum or nucleus. This stratified appearage is now said to be due to different proportions of war in different strata, as when the starch grain is dried by ht it loses this appearance. The method of growth of a srchgrain has given rise to much discussion, but it is now prerally held to take place by intussception, *i.e.* the deposit of fresh particles between those already formed. Its funion is to supply nourishment to the plant when it begin to germinate, therefore it is termed a "reserve mateal." Light is necessary for its formation, and in direct sunlit it appears to be formed at the very moment at which the ays-fall upon the green parts of the plant. Varying as it do in appearance, the whole group still possesses some appearices in common, which are so characteristic as to enable to distinguish it from all other bodies when viewed by spial arrangement under the microscope. In size the indivual grains vary from the  $\frac{1}{200}$ th of an inch in diameter in pus-les-mois starch, which is the largest, to the  $\frac{1}{3000}$ th in the starch, which is the smallest. The specimens arranged der the microscope included some grains of potato starch, simp by the aid of polarized light. Attention was directed the hilum near to one end, and the cross given to it b the polarized light. There was also some arrowroot and veat starch. The latter, it was pointed out, differed from thewepreceding, being more nearly round in outline, and hing the hilum in the centre. Mr. Eberlin next showed a saple of arrowroot, purposely mixed with potato starch and veat starch, two likely adulterants, the difference of the gins being at once obvious. He then gave a practical demor ration of drawing and measuring a starch grain. "Here be said, "is a small glass slip mounted on a slide which has nes ruled on it which are the  $\frac{1}{1000}$ th of an inch apart. We ng this into focus, then place the microscope in a horiz tal position, so that the eyepiece is a distance of about 10 ince from the table; next slip over the eyepiece the camera luda, and we get an image of these lines thrown down on to his sheet of paper placed on the table. These can be the easily with a little practice. Now substitute for the m rometer the slide on which is mounted the starch grains be drawn, and we get an image of these grains thrown dow on the paper just over the parallel lines, and these can in ike manner be traced with a pencil. Now if a certain aim occupied the space between two of the lines, it is objust that its size must be the  $\frac{1}{1000}$ th part of an inch, and on measuring the drawing of these lines we find that the vole ten spaces cover 2 inches, as they here do, they must have en magnified 200 times, since in reality they occupy only th of an inch." Some other starches, such as calumba and n ze, were then shown, and in conclusion the lecturer urgechis audience to take up this most interesting and useful br ch of study and recreation.

#### OLDHAM.

EXPLOSION OF A WINDOW CARBOY .-- Last Satuar evening a somewhat singular explosion took place at he druggist's shop lately occupied by Mr. H. L. Hargraves, ad now by Mr. Granville Wood. A large carbey, filled th coloured liquid, and used as a window decoration, b st, owing, it is supposed, to the combined action of the bur pg sun and the gas in the shop. The contents were scatter in all directions, and many of the articles exposed for sale in he window were spoiled.

#### SOUTHAMPTON.

ACCIDENT WITH VITRIOL.-Last week two men re removing a carboy of vitriol from a van into the yard be id the shop of Mr. W. Bates, chemist, Oxford Street, when he carboy fell and broke. The vitriol as a consequence imn liately escaped and was wasted, some of it going over the et and hand of one of the men. Mr. Bates immediately apped sil to the injured parts, thus preventing serious consequences, nut the man's boots and socks were spoiled.

#### SUNDERLAND.

AERATED-WATER BOTTLES .- At the Sunderland Police Court on Wednesday, William Davidson, acrated-water manu-acturer, Tyne Dock, was charged under the Trade Marks act with using a trade-mark belonging to Messrs. Kershaw co., Gateshead, with intent to defraud. The prosecution vas undertaken by the Northnmberland and Durham Mineral Water Bottle and Trade Protection Association (Limited). bottle of aërated water, bearing Messrs. Kershaw's tradepark had been bought at a shop which it was alleged was upplied by the defendant. On behalf of the latter, Mr. Mabane said this was not a prosecution, but a persecution, pecause Mr. Davidson declined to remain a member of the society. There had been no intention to deceive the public. When he (Mr. Mabane) went into his club or an hotel to have a brandy and soda, he did not care what bottle they got it If the liquor was up to the standard that was all he out of. ared about. He would prove that his client had received ast week 65 dozen bottles belonging to other people, and hat other makers had received a similar number of his pottles. The Bench decided that there was no frandnlent ntent on the part of the defendant, and dismissed the case, out without costs.

#### WOODHALL SPA.

Os Tuesday Mr. E. Stanhope, Secretary of State for War, and the other proprietors of the bromo-iodine spa at Woodull, Lincolnshire, invited a number of gentlemen to inspect he hotel, new pnmp room, and baths which have recently peen erected at that place. Hitherto the spa at Woodhall as enjoyed only a local reputation, and a short time ago a yndicate-composed of Sir Richard E. Webster, Q.C., M.P., Mr. Edward Stanhope, M.P., Mr. Henry Chaplin, M.P., Mr. T. Cheney Carfit, and the Rev. J. O. Stephens-was formed to levelop what now promises to be a popular health resort. fhe pump-room and bath have been erected from designs by Major Davis, of Bath; and the other buildings are by Ur. R. Adolphus Came, of Mecklenburgh Square, W.C., who s also architect to the syndicate. Plans of a new hospital lave been prepared by Mr. Wheeler, of Boston. At the uncheon the chair was taken by Mr. E. Stanhope, M.P., and mong those present were Lord Colville of Culross, the larl of Winchilsea and Nottingham, the Bishop of Nottingam, the Attorney-General (Sir Richard E. Webster), Sir lickman Bacon, Sir A. Fairbairn, Sir Spencer Wells, Dr. Jurney Yeo, Mr. Chaplin, M.P., Mr. Harry Oakley, Dr. Harvey Boulognê), Dr. Braxton Hicks, Mr. T. Cheney Garfit, and bout 100 representatives of the medical profession. The oast of the Queen having been honoured, Dr. Burney Yeo ald Woodhall Spa was a health resort which he had no loubt would soon claim a Enropean or even a world-wide eputation. This time last year he had the pleasure of ttending a similar gathering at Leamington, on which ccasion the Speaker of the House of Commons gave a most ateresting address on the mineral wells of England, and it as pointed ont that if it was desired to promote the resperity of the English spas there must be certain develop' cents which many of them did not at present possess. The ovalid did not merely want water and baths. There must be peans of recreation, for the invalid who was well amused was alf cured. The Speaker rather reproached English medical aen for neglecting the spas of their own country. But he beleved they were credited with an authority which they did ot possess. They frequently had to take many subjects into onsideration, and when recommending any particular spa to lady it was no nncommon thing for the patient to suddenly ace them with the question, "Will not Homburg do as well?" Laughter.) The young man in the Guards objected to visit larrogate because he was afraid of meeting his tradesman here, and the married man was afraid to go to Bath because is mother-in-law had already been ordered there. (Laughter.) le recommended the syndicate to induce a Royal Highness <sup>0</sup> pass two seasons at Woodhall Spa, and all these difficulties rould be ended. Lord Colville of Culross promised on ehalf of the Great Northern Railway Company that every

facility and inducement should be offered to visitors to Woodhall Spa. The health of the chairman concluded the toast list, and the company adjourned to make a tour of inspection of the premises.

#### IRELAND.

#### DUBLIN.

METHYLATED SPIRIT-DRINKING.—An inquest was held on Saturday before Dr. N. C. White, city coroner, on the body of a labourer named Patrick Connolly, who resided at No. 4 Cherry Lane. A brother of Connolly's deposed that the deceased was of very intemperate habits, and would sometimes be drunk three times in one day, drinking a fluid commonly known as "finish," which was used in the polishing of furniture. On Thursday evening he drank a great quantity of the "finish," and, as they could not wake him from a state of unconsciousness, he was taken to the hospital, where he died the following day. Medical evidence was adduced that the deceased's death was caused by poisoning, the result of drinking methylated spirits. The compound called "finish" was forty-five per cent. stronger than whisky.

#### TIPPERARY.

THE DRUG CONTRACT for the snpply of medicines to the Board of Guardians, which, as we reported a fortnight since, had become a political question in the Board, has proceeded still fnrther. It will be remembered that the Guardians had before them two tenders for the annual supplies of medicines, one sent in by Dr. O'Ryan, a local apothecary, landlord, and member of the National Leagne ; and the other by Messrs. Leslie, chemists, of Dublin, one member of which firm is a Unionist landlord. Messrs. Leslie's tender was accepted, being the lowest. National League influence, however, has been exercised, and at the last meeting of the Board Mr. Ellis, in accordance with notice, proposed a resolution that the medicine contract be rescinded, and that Dr. O'Ryan be declared contractor. The clerk mentioned that Messrs. Leslie had signed their bond, and that already medicines had been received from them under their contract. The Board would lay themselves open to a lawsuit. The contract was, however, rescinded by a majority of eleven to two.

#### SCOTLAND.

#### DINGWALL, N.B.

MR. ALEXANDER MACIVER, whose shop was entirely burnt out a few weeks ago, has now had it completely refitted in a high-class style, the work having been undertaken throughont by Evans, Sons & Co, Liverpool.

#### DUMFRIES.

MR. J. CARRUTHERS ALLAN, son of Mr. William Allan (of Carruthers & Allan, chemists, Dumfries) has been appointed Danish Consul at Lagos, West Africa, where he is superintendent of the African Direct Telegraph Company.

#### EDINBURGH.

MR. WATT'S DEFEAT.—General regret is expressed in pharmaceutical circles here that Mr. Watt was not elected to the conncil. His extensive experience in the conduct of public business, municipal and other, would render him a valuable addition to a board not already overburdened with capacity for prompt and practical procedure. He has been, perhaps, rather late in "coming out" in the pharmaceutical arena. His constituents have not all had the opportunity of personal intercourse, and without that a longer time is required in order to be thoroughly "understanded of the voters."

METHYLATED SPIRIT-DRINKING.—At a meeting on Monday of the Edinburgh City Parochial Board Mr. M'Gibbon said that at a meeting of the Relief Committee, held on Friday, the inspector stated that a large number of applicants for relief came in a very stupid and halt mad state, caused by drinking methylated spirits. From various sources they had heard lately that the sale of this spirit was general, and he understood that it was composed of the very coarsest spirit mixed up with at least 10 per cent, of turpentine. The stuff was cansing much mischief amongst the poorest class of the

-

uce inp

当他(

- the

181 12

dil the tr

空雨

will

iz bre je

o regieg Gerlie M

Askey of Sectile W

ning he d ondelase. Israi jam

iyos neighl

zia interes author las ruis. Marti

when for

No les ti

ita cierel

zi bri

"dealpha

tistes a sc Her

l'Amors,

as to Mr.

inder.

TOMES

17585 a

tel op fo akez & Co

CITERES, C

illim of 1

Retien

i vileas

d the for

tain Nove Exerted to

and also

adiodia

which the r

elle) with

D ETGE Z of the S

30% perfo

SECTE 25

entration service bis service bis service bis service bis

La ralae

community, and seeing that the number of their paupers might be considerably increased from this cause, he moved the Board make a representation to the Secretary of State for Scotland suggesting that a clause might be inserted in the new Police Bill, or adopt some other means by which the sale of methylated spirits would be regulated and restricted more than it is at present. (Applause.) Mr. Mackenzie, chemist, seconded the motion, and said it was not that the spirit was bad, nor was it that it was mixed with turpentine. It was that while common whisky was understood to be 12 over proof, methylated spirit was 62 over proof, and had an immensely bad effect on the brain. Added to it was a certain percentage of other spirit, which was intended to prevent it from being used for drinking purposes, and in this particular state they found drysalters and the lower order of chemists selling it as drink, their places of business on Sunday mornings swarming like beehives with the wrecks of humanity, whom it ulti-mately drove to madness. These chemists and drysalters paid a licence of 10s. for selling this spirit, and in this way they were carrying on a legal traffic, but a most dangerous one. The motion was unanimously agreed to, several of the members expressing the opinion that the duty or licence should be made 101. or 151.

#### GLASGOW.

NEW AMMONIA WORKS .- It is stated that a contract has been placed with Messrs. R. & J. Dempster, engineers, Manchester, to design and erect a complete sulphate of ammonia works in connection with the Govan Iron Works, belonging to Messrs. William Dixon & Co., Limited.

#### HAMILTON.

DAMAGES FOR CATTLE-POISONING .- In the Sheriff Court Sheriff Birnie has given judgment in an action in which James Hunter, farmer, Capelrigg, East Kilbride, sued Samuel W. Bringan, grocer, East Kilbride, for 251. for damages for the death of a cow and calf, alleged to have been poisoned by saltpetre supplied by defendant's shopman instead of salts. The Sheriff found (1) that on or about June 21 last the pursuer ordered from the defender a pound and four ounces respectively of Epsom salts; (2) that instead thereof he was supplied with a pound and four ounces of saltpetre, and having given them to a cow and a calf respectively they were poisoned and died. He assessed the damage at 171. 13s., besides the expenses of the action.

#### NIGG.

DEATH FROM CHEMICAL-MANURE FUMES .- On Saturday, May 19, John Ross, farm servant, Arabella, Nigg, died under very peculiar circumstances. On the previous afternoon deceased, with four other servants, was employed mixing and carting to a field a quantity of chemical manures. In the evening all of them became unwell, it is supposed from inhaling the fumes from the manure. Notwithstanding prompt medical attendance, Ross died early on Saturday morning. The other four men are believed to be out of danger.

#### FRENCH PHARMACEUTICAL NEWS.

#### (From our Paris Correspondent.)

A PERMANENT EXHIBITION OF HYGIENE will soon be inaugurated on the first floor of the Faculty's Ecole Pratique bnildings, just completed, on the Rue Monsieur-le-prince. It is intended to gather there models and appliance scattered in the Arts-et-Metiers Conservatory and at the Val-de-Grâce (not open to the public), so as to provide Paris with a practical collection on the plan of the Parkes Museum in London.

POISONING BY MURIATIC ACID.-M. Vaquez, a medical interne at the Tenon hospital, has reported the post-mortem of a man who recently died there three days after swal-lowing 200 grammes (nearly 7 oz. by weight) of hydro-chloric acid. The caustic action seems to have chiefly borne on the breathing organs, the trachea and the brenchi being much injured, while the larynx remained almost unaffected. The death was caused by suppurating broncho-pneumonia. The digestive tube, tongue, pharynx, and esophagus even, were scarcely touched, but the stomach was deeply injured. the first was traced with a firm hand, the sccond was blurred and the date so indistinct as to be illegible. The date of

The intestine remained sound, which shows that the stom;h retained the liquid. The relative immunity of the diges re organs above the diaphragm is most remarkable.

THE CONGRESS OF SCIENTIFIC SOCIETIES met in lage numbers on Tuesday, May 22, at the appointed time, in he halls of the Ministry of Public Instruction, and after a bef introductory address by President Jean Bouilhet, the mabers separated to the section meeting rooms, where ty soon organised for work. The section of sciences had pr chairman M. Faye, of the Paris Observatory, with Profeer Milne-Edwards, of the College of Pharmacy, on his rit, and M. Vaillant on his left. The business of the day disisted only in appointing hours of meeting and fixing dis for the various papers announced. The subsection of medal sciences, with 15 papers, is to meet at 9 A.M.; and matmatics and mechanics, with 7, at 10 A.M.; physics and chmistry, 24 papers, and natural sciences, 30, are to net together at 1.30 P.M. Other communications, not annound formally, are also forthcoming, so that the labours of e section cannot fail to be interesting. A lively discuss about fossil phosphates seems to be looming up in e chemical subsection.

A SET BACK FOR "ANALGESINE."-It will probably e remembered that " analgesine " is the new name proposedo designate antipyrine, and thus avoid conflict with the claiming property in the familiar designation. But it vs alleged at a meeting of the Academy of Medicine that to country physicians have been in the habit for a long time f prescribing under the name of "analgesine" a certa mixture of their own, entirely different from antipyris. The parties interested in the patent rights make all they on out of this complication, while others maintain as stoutly s ever that the copyright being de jure null and void, anyce is free to make and sell antipyrine under its best knon appellation. The truth in all this appears to be that e threatened confusion of "analgesines" is grossly exaggera it if it exists; and that, on the other hand, while every e loudly proclaims the antipyrine patent's invalidity, no (e cares to join issue with the doughty Dr. Knorr. In meantime the infringement suit against M. Petit is still, but no progress has been reported lately.

ALMOST AN EPIDEMIC POISONING .- The town of Sals d'Hyères has been struck with consternation. Near te middle of May nearly the whole population experiend symptoms of poisoning, and eleven persons died. The cale of the accidents was found to have been wine which was traced to the cellars and storehouses of the Count Villeneuve, a wealthy landowner and vintner of the pla The Count has been arrested, and the internal organs of te Victims have been exhumed and sent in sealed jars to t Paris municipal laboratory for analysis. The symptoms the fatal sickness tend to prove arsenic to have been to poison, but how it found its way into the wine still remain an obscure question. Of course rumours are plenty, and are suggestions. Some speak of arsenic having been used the vineyards against phylloxera; others hint at crimir carelessness, and again the more learned recall the occasion presence of arsenic in sulphuric acid and in anili colours, the first being used for making glucose, a both glucose and anilines being employed for adulter ting wines. Finally the possibility of some fiendish reven is also hinted at. The judicial investigation now progressi will probably dccide who is to be held responsible.

MORE PRIZES FOR INTERNES - The Corbeil Civil Cou has just rendered a decision directly interesting hospit internes, and incidentally bearing on a serious question jurisprudence. One Dr. Fillioux, by a will duly executed sor months before his death, bequeathed a life interest in b estate to a servant, the property afterwards to go to t Assistance Publique for the purpose of founding two annu prizes for one hospital interne and onc externe student. B shortly after his decease, the servant, a comely young woma produced another will, purported to have been made on th day before the doctor's death, whereby he gave her all h fortune unconditionally. Both wills were holograph-that i wholly written in the testator's hand-the hardest sort of will to break, according to French jurisprudence. Only, whi the first was traced with a firm hand, the second was blurre

vill, always a most important point, was vital in this intance, and decided the case. The judge held that, as the aw strictly commands all testaments to be dated, the estrament produced was null and void, and it was imcaterial which of the two wills had been executed first. udgment, therefore, was given for the Assistance Pablique, ad the young men will have the prizes in good time.

A SUPPHUROUS SPRING IN PARLS.—Springs of strongly upharons water have just been discovered in the Isle St. onis, at depths varying between 11 and 13 mètres (36 to 3 feet). M. Stanislas Meunier, on bringing the fact to the onice of the Academy of Sciences, added that in his opinion be sulphuration of the water was caused by the simultaneous resence in the soil of gypsum fragments and vegetable atters—in less scientific words, plaster-rubbish and streetreepings. M. Mennier was, no doubt, right in his explanaon, but something he did not mention is that more than nee before have sulphurous springs been discovered in Paris; ser were, however, invariably found to owe their sulphur to ill more impure neighbours than plaster and vegetable fue. Another interesting fact relating to the geology iParis streets is that last year, when a new sewer was dug ar the Porte St. Martin, lumps of sulphur crystals were ported to have been found in a ground which is known to we been filled in less than thirty years before. The same planation was offered for the formation of the sulphur, invojer materials having been used by the contractors, ifortunately, the sulphur find was not sufficiently vouched r to be accepted as a scientific fact.

#### Personalities.

Ma.E.C.T. BRIDGES, of 7 Market Place, Willesden, has Id his business to Mr. Robert Kerr, for many years with ass. Squire, of Oxford Street. Mr. Parson C. Baker ranged the transfer.

MR. S. STEPHENSON, pharmaceutical chemist, has just ened new premises at 93 Kensington, Liverpool, which re been fitted up for him in a high-class manner by asrs. Evans, Sons & Co, of Hanover Street, Liverpool.

Ma JOHN HUGHES, C.C., of the firm of Idris & Co., has an elected a fellow of the Chemical Society. According to a St. Stephen's Review the members of this firm have reuly received quite a shower of honours. Mr. Thomas H. Miams, one of the firm, had conferred on him the Red bas of France in November last, and Mr. W. Adpar Jones north later received the Red Cross of Belgium, both being solidited testimonials. The Maharajah of Tagore (the Sir lind Lawson of India), having heard of these recognitions, sjust decorated the remaining member of the firm (Mr. the Hughes, C.C.) with his special diploma and order.

THE LATE MR. EUGENE RIMMEL .- By his will the late gene Rimmel, of the Strand, and of Neuilly, Varennes, and theur, France, perfumer, who died on February 25, 1887, I was well known as a liberal supporter of the French utiles in London, desires that his wife, Mdme. Betzy amel, availing herself of the privilege granted to her by iz contract of marriage, may continue for her own account, ten years after his death, his business in London, Paris, elsewhere, entrusting the special management thereof in don to his son, his head clerk, and his foreman, and in is and Nevilly to his manager there, and paying to each per month, and 5 per cent of the profits. In the event of wile's compliance with his wishes in this respect, he reaths to hor the whole share of his property, movable immovable, of which the French law gives him power to cose in her favour, and requests her to pay legacies of Leach to the French Chapel, Leicester Place, the French I pital, Lisle Street, and the French Benevolent Society; (1007. to each of his employés (male or female) who may e been with him upwards of twenty years, of 50% to each " may have been with him upwards of ten years, and of to each workman and workwoman of ten years' service; c00, each to his friends Dr. A. Vintras and Mdme. Petit;
 a of 2007, each to his sisters, Mdme. Corby and Mdme. The value of his personal estate is declared a 2.0331. 188. 2d.

#### NEW COMPANIES.

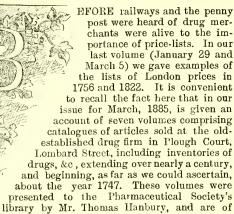
BARCLAY & SONS (LIMITED).—Capital, 100,0007, in 57. shares. Object, to purchase the business, business premises, &c., of Barclay & Sons, wholesale patent-medicine vendors, &c., 95 Farringdon Street, E.C. The first subscribers are G. R. Barclay, patent-medicine vendor, 95 Farringdon Street, London, E.C.; H. Davenport, chemist, 33 Great Russell Street, Londor, W.C.; C. H. Barstow, surgical instrument maker, 5 Albion Place, Blackfriars, S.E.; G. Barclay, patentmedicine vendor, 95 Farringdon Street, Londor, W.C.; A. E. Barclay, analyst, 3 Blissington Road, Lee; R. Wilson, warehouseman, 24 Gainsborough Road, Mile End, E.; and G. H. Ball, 73 Strand, Londor, W.C. The number of directors shall not be less than three nor more than five. The first shall be G. R. Barclay, W. Powell, A. E. Barclay, and John P. Quick. The qualification shall be the holding of not less than 50 shares of 57 each. The remuneration to Mr. George R. Barclay as managing director shall be the sum of 5007, per annum, and to the other directors the sum of 1007. per annum each.

THE REGINARIS COMPANY (LIMITED).—Capita', 20,000., in 52. shares. Object, to lease, hire, or purchase the lands, works, and springs of mineral atd medicinal waters known as the Apollo Spring, situate at Niedermendig, in Rhenish Prussia, and to carry on the trade of manufacturers and dealers in mineral, medicinal, and table waters. The first subscribers are A. A. Manero, wine merchant, 24 Old Bread Street, E.C.; E. F. Gye, merchant, 9 Great St. Helens, E.C.; N. Abdo, clerk, 21 London Road, Claptor; J. J. Cornil, Cannhall Road, Leytonstone; A. S. Curtins, merchant, 9 Great St. Helens, E.C.; J. S. Curtins, merchant, 9 Great St. Helens, E.C.; E. T. Booth, 49 Arlington Road, Tulse Hill. The number of directors shall not be less than three nor more than seven. Qualification, 10 shares; remuneration, 400%, to be divided amongst them.

F. C. RUSSELL (LIMITED).—Capital, 25,0007. Object, topurchase the business known as the "Russell" treatment for the cure of obesity, at present carried on under the style of F. C. Russell, of Woburn House, Store Street, Bedford Square, for the sale of a certain preparation under the said treatment, and to carry on the business. The first subscribers are A. Wells, 1 Queen Street, Cheapside; S. B. Hobbs, Reigate, Surrey; H. S. Hubbard, Wigmore House, Redhill, Surrey; A. N. Spencer, 1 Park Hill, Bexley, Kent; S. E. Hubbard, articled clerk, 25 John Street, West Smithfield; C. J. Berry, Clerk, 96 Gloucester Ruad, Camberwell, S. E.; H. W. Robinson, 20 Little Russell Street, Bloomsbury, W.C. The number of directors shall not be less than three nor more than seven. The first shall be S. B. Hubbs, A. Wells, E. A. Swan, and H. S. Hubbard. Qualification, 50 shares in the capital of the company. Remuneration, 1007. to each director, and an additional 1007, for the chairman.

PEPPER-GROWING A PROFITABLE OCCUPATION.-The Straits Times recently advised planters to turn their attention to the cultivation of pepper, which, it is claimed, is a crop likely to prove a very paying one to the producers, the prices being high and the cultivation a comparatively easy one. The latter is now almost exclusively in the hands of the Chinese, only one European, Mr. Stevenson of Klang, in the Straits Settlements, having thus far ventured upon peppergrowing. One indispensable condition for the success of pepper-growing is good choice of ground, especially as regards the situation of the land. Flats or genity sloping land of sedimentary and plutonic formation have invariably been found most suitable for the purpose, and such lands are obtainable in sufficient quantity to meet any demand likely to arise. In the neighbouring native states, far-reaching and fertile plains are available in any quantity. The consumption of pepper, not only in Europe and America, but also in China, has of late proved so steady and rapidly increasing, that the supply has utterly falled to overtake the demand. especially because Acheen, in former times t e chief source of supply, does not now produce any quantities worth mentioning.

#### TWO OLD PRICE-LISTS.



exceeding interest.

For a volume which carries as two decades further back we are indebted to Mr. James Mackenzie, of Edinburgh. This volume is "ex libris Caroli Tough, anno 1724," and appears to have been the commonplace book of that gentleman, whose habitation at that time was Glasgow; but we find that there is a record in the volume that in 1719 he resided in Kilmarnock. What Mr. Tough's profession may have been we have no information, but that be was a centre for the dissemination of knowledge is apparent from the long list of books lent, dating from 1718 to January, 1720. This commonplace-book, like many other commonplace-books, was commenced, but not continued with any spirit. The first annotation (written in 1715) is a reply to the question, "What are we to think of Death-bed Repentance; and whether, in ane ordinary way, we have any good Grounds to expect it will be unto Life. Into the answer to this question Mr. Tough enters with that philosophic acumen which is supposed to be characteristic of his countrymen in theological matters, and he arrives at a business-like conclusion of the solemn argumentation, viz, that "it is unsafe to build up our Hopes of Mercy on a Death-Bed Repentance." From this subject he passes on to medical matters, upon which he has six articles, five of them written in Latin. The first one is entitled "De Tabe cum Diabete & cum Diarrhœa & Dysenteria.' Regarding the latter complaint, he tells us "First the Diarrhea and Dy sent ry is to be cured by ye use of proper medicaments. Such as the continued use of a milk Dyet, of the Peruvian bark; Chalybeat Mineral Waters, and ye white Decoction for ordinary drink. The consumption frequently supervenes children breeding teeth, and is easily cured by the use of the White Decoction with pearl, and Juleps and astringent medicines a little opiative, as follows :- 4 Hg : Plantag : Tormentil: Germin: querc: aa: ʒiij.; Aq: cinnam: hord: ʒiv.: Aq: Mirabil: ʒj:; Margarit: Coral: ppt: cret: a Əij.; Bol: Ver: Sang: drac: a3ss; Terr: Japon: Jj: Spt: Vitrol: q.s. ad: grat: acidulat: syr." How many young pharmacists nowa-days could face that prescription? We need not go further into Mr. Tough's medical lore, but shall proceed to his prices. The prices for 1726 are simply given as "London prices, but for the following year they are stated as those of "Statefield & Baker, in Lumbar [Lombard ?] Street. Below Cross Keyes." The location of this firm is worthy of note, for it is probable that Lombard Street was at one time a centre for druggists. The prices in Mr. Tough's lists are for drugs, chemicals, and their preparations, and in the latest list a few druggists' sundries occur. The prices of some of the commoner medicines are remarkably moderate. For example, we have the following :-

		-			s.	đ.
Ærugo aris Gallio			••	lb. iij.	2	4
Argentum vivum	••	••	••	1b.j.	5	0
Arsenic alb	•••	••		16. j.	0	31
Cera alb	••	••		lb. j.	2	0
Pulv. liquirit.	••		••	1b.j.	0	4
Rad. irid. flor.	••	••	••	1b.j.	0	8
Sarsaparil'a		••		1b. j.	4	0
Sem.card		••	••	lb.j.	1	6

The latter two articles are especially moderate, considering

行自动的图

inte prov

-lastis

nd ster

Til has been :

ingreene is a

restit in 1774 :

talica pure s

Lies observed

iste before it w

erad choose 'e

The state and

Rike date f th

E Stales W

El related to te

interest (

theth It

instably high with potassion

Fistorered by E

the Gregor in 1

a goved show

ining are acco

mi ire years aft

THE WAS obtained

ilso ib wh by I

alist, and you'r

it is no means a

a target by the se Dette air, and

eldare say you'n

all tare, to eler

the tear to wh the tipe, if the

terres out of Ho

Y guo non, as

Pose op to a

TOD DAY SIL

entrail really First He fillestone-the

ni sund, and m

eding bouse, jr

the week at 1

the terms, p

to the fine: a 20 wine, whi chubinty, a capi

the distant countries from which they are imported. Trty years later the broker's price for sarsaparilla was 2s. 1d. peb., and cardamoms were 4s. 7d. Similar lowness of pri is observable in some of the gums. Here we have "gumss: foetid: opt:" quoted at 5s. per 1b., and myrrh at 3s. 8d. but benzoin opt at 6s. and galbanum at 4s. per lb. are n so close to the broker's prices of 1756. "Bals: Tolut:" is qued at 6s. per lb., and the Peruvian balsam at 1s. 6d. pe oz. 'Cantharad : lb. j., 4s.," is a quotation 50 per cent. lver than the same article figured at in the list which we ablished in January. It will be found useful, as well a extremely interesting, to compare these and the folloing prices with the present prices of the same articles. I all cases the orthography is as we find it in the manusipt list:-

						σ.	<i>a</i> .	
Flor: sulph :		••			lb. j.	4	0	
Ol:anis:chym	:		••	••	1b. j.	9	0	
Ol : origan :	••	••			3 j.	1	6	
Ol : petrolei	••	••		••	1b. j.	2	0	
Vitrieli	••	••	3 j.	2d.,	lb. j.	1	0	
Piper:long:	••	••	••	••	lb.j.	2	8	
Piper: alb:				•••	1b. j.	3	4	
Sang : dracon :	com:	••	••	•••	1b. j.	3	6	
Sem : sanetonic			••	••	1b.j.	8	0	
Tart : emetic		••		••	16. j.	6	8	
lethcocolla'		••		••	1b. j.	4	6	
Subl: Corrosiv	<b></b>		••	••	1b. j.	7	6	

Clyster pipes, 1 dozen of boxwood, are quoted at 4d., an for bone, 1s. 6d.; 100 sheets of wafers cost 1s. "Caule potential:  $\exists v.," 2s.;$  and ungt: laurin: was 1s. 2d. pelb. The latter part of Mr. Tough's list is rendered confusin by the fact that the prices are entered in the cash colum in such a way that it is difficult to tell whether the firs 'comm is used for pounds or shillings. Thus camphor at 4., 4d vas a reasonable price in 1727, but immediately below that uotation are "Cantharid" lb. |1| 10 | — and "Cort: peru'n" lb j | 1 | 14 | -." Taking all the items together, the waht of the evidence seems to show that Mr. Tough used the rst column for shillings; but why he should quote such a ice as "one shilling and fourteenpence" is unfathomable.

Another list hich is before us is dated London, Apl 1, 1833, and was issued by

#### JOHN WARRICK

IMPORTER of the CHEMICALS of Meanras P. llevier, Robuct, and Boyveau; and M. T. Levaillent of Paris, and of FRICH ESSENTIAL OLLS, PERFUMED SPIRITS, &C. Also the ole agent for the SULPHATE DE QUININE, of Mr. M.F. Levaillant, No. 9 THREE KING COURT, LOMBARD STRE

This list is a two-page quarto sheet, and is wonderly rich in fine chemicals. For example, it contains the follcing articles at the prices (in parentheses) per ounce:-Brine ( $\pounds 4$  10s.), Cafeine ( $\pounds 6$ ), Carthamine ( $\pounds 8$ ), Cathartine (8), Cetine (£110s.), Delphinc (£10), Emetine (pure, £15; (lex £1 4s.), Morphia (pure £1 8s.); picrotoxine (£10), Quine (acetate £1)—no price quoted for sulphate; Salicine s.), Strychnine (xtl. £4). Alcoholic extract of Nux Veica forumes here as in Moreor's list (C = h D. March 5, 188; as figures here, as in Morson's list (C. & D., March 5, 188, as a speciality, and the price is given at 4s. per oz. Brc ine had few uses those days, otherwise it would not have sen a chemical curiosity at 1*l*. per oz. Those who now ays appreciate the advantages of the gelatine copying-pad wild, half a century ago, have found their feelings go all the her way, for No. 1 gelatine was 10s, a lb., and glycerine  $\pounds 8$  pe z. 1 But should not the latter be the price per lb.? We ind iodine quoted at the same price, although Morson in 322 sold it at 7s. per oz. Contrast, however, the great reduion in the prices of the useful alkaloids, morphine and qu nc. Morson's price for morphia in 1822 was 18s. per drachm nd quinine sulphate was 40s, per oz. Strychnine, also, which was quoted by Morson at 25s, per drachm, is here give at  $\pounds^2$  15s, per oz., and  $\pounds^2$  for the "chrystallised" at le. These reductions are indicative of the progress of the kaloids in therapeutics. Sal. succini, which we find quot by Statefield & Baker in 1727 at 8s. 6d. per oz., is quote by Mr. Warrick at 10s. This appears to be the only reliput petroleum from the previous century's list. The occur ice of "Labelia Syphilitica, root," 6s. per oz., suggests tha he drug was then a new remedy, for Rafinesque in 1830 ad

May 26, 1888.]

poken well of it as a potent drug, although subsequent inrestigations in Europe proved that it had no value in the reatment of syphilis, and its use for that purpose was after-vards abandoned. The other items in Mr. Warrick's list vhich are particularly noteworthy are several of the elements, which are quoted as follows :-

i i					£	8.	1				£	8
	admium	••	••	por oz	. 8	0	Manganese,	pure	re-			
	odine	••		,,	8	0	duit	•••	•••	per oz.	8	0
	folybdene,	pure	• ••	**	15	0	Phosphorus [1999]		••	per lb.	1	12
	'otassium	••		,,	6	0		••	••	per oz.		
	ilicine	••	••	31	60	0	Sodium	••	••	**	12	
	'elure, pur		••	"	15	0	Titane	••	••	,,	10	0
	rane, pure	redu	uit	,,	10	0	Zircone	••	••	,,	4	0
	'erinm, pr	ire	••	,,	10	0						

A number of these elements were comparatively new to ience in the year 1836, and two or three of them had not en been actually obtained in a pure state. Cadmium was scovered in 1817 by Stromeyer, and independently at the me time by three other chemists.

Cerium is one of several elements which are generally credited to Klaproth. He isolated it in 1804, Berzelius d Hisinger also observing it then; but in the year 1839 osander showed that the metal contained the oxides of two w metals, lanthanum and didymium. Iodine was discovered Curtois in 1812, but it is only during the past thirty or rty years that it has been made on a commercial scale. le isolation of manganese is one of Scheele's achievements, having prepared it in 1774; but it is questionable if the etal was obtained in a pure state until well on in the preat century. He also observed molybdenum in 1778, but it is four years later before it was isolated by Hjelm. Phosorus stands second chronologically in the list of elements lose discovery we have any authentic record of. Brandt scovered it in 1669. Potassium and sodium we owe to Sir imphrey Davy, the date of their isolation being 1807. The ndescript element selenium was discovered by Berzelius in 17. It is closely related to tellurium as well as to sulphur. llurium is of special interest to pharmacists as the reputed 1se of bismuth hreath. It was isolated by Müller von ichenstein in 1782, and occurs in nature associated with muth. The remarkably high price of silicon is probably to the fact that potassium was used in preparing it. is metal was discovered by Berzelius in 1810. Titanium 3 discovered by Gregor in 1789, but his metal was not e, as Wöhler showed about forty years later. Both num and zirconium are accredited to Klaproth (1789), Both it was not until five years after the date of Mr. Warrick's that the former was obtained pure, and the zirconium Ilaproth was also shown by Berzclius to be impurc.

#### BENZOLE: A CAUTION.

four spirits are low, and you're feeling so so, ou will find it by no means a bad thing to go o some quiet retreat by the sea for a blow; ere the change in the air, and the scene, and the fare ll contribute, I dare say you're doubtless aware, y dispelling dull care, to effect a repair

- the wear and the tear to which all fleth is heir; le to eight out of nine, if the weather is fine, incline to opine that it quite takes the shine s a bracer of nerves out of Howard's quinine !
- 1, the sea is a sine quâ non, and, in fine, I link few things come up to a dip in the briny.
- I se had a friend (you may safely depend at his name wasn't really Fitz-Rupert Tremend, it no matter, 'twill do !). IIe determined to spend fortnight at Folkestone-the Cheriton end.
- E rived safe and sound, and most luckily found respectable boarding-house, justly renowned, th a room on the ground-floor and views all around,
- d and board by the week at the rate of three pound. Tlarrangements were fine; a good breakfast at nine, en a luncheon with wine, while the hour to dine
- is fixed at eight-thirty, a capital time ! Soproving the diet, the terms, and the quiet,
- mend thought he couldn't do better than try it !

- Now my friend, by the way, is a bachelor gay, A man about thirty, you'd probably say, With a beard and moustachios-1 gorgeous display !
- He's the gentleman quite, and, oh ! very polite, Tall, two inches at least above medium height ! Can you wonder the sight of so gallant a knight, In the "pension" circle, was hailed with delight ?
- Then at pic-nics and rides, and the sands at low tides, At excursions and concerts, and dances besides, He was always considered the safest of guides,
- While to anyone wishin' for boatin' or fishin Fitz-Rupert was deemed an immense acquishin'.
- So the time flew by, as the time will fly When the heart is light and the spirits are high, And the weather is fine and deliciously dry, With a glorious sun in a glorious sky;
- Yet a week has gone past, and the sky is o'ercast, Dispersing the pleasures too fleeting to last Which are all disappearing and vanishing fast: See ! Fitz-Rupert, the peerless, is standing aghast !
- Then tell us, oh pray ! without any delay,
- Why it is that he stares in the blankest dismay, And behaves, too, in such a ridiculous way.
- Have patience, my friend, I'm a bit of a wag, an' I Must defer my reply till I've piled up the agony.
- Oh dear! Look ye here! Something's happened, I fear, For his language is frightful and shocking to hear, While his antics are queer, and it's perfectly clear That Fitz-Rupert has gone off his nut pretty near ! Whatever can make him take on so? poor dear!
- Pray keep yourself calm. Ile will come to no harm; Though his words are unsuited to set to a psalm, There is really no serious ground for alarm.
- confess I digress; but I want to lay stress On a plurally singular article. Yes, Indispensable part of a gentleman's dress, Which I find is, in verse, very hard to express, And the fact is I'm anxious before I begin on 'em
- To select a polite and appropriate synonym.
- Let us now draw a veil o'er that part of his tale Which had caused poor Fitz-Rupert to rave and bewail, The unfortunate close of a stroll down the dale.
- He had walked p'raps a mile, when he came to a stile, Where he lit a cigar and sat down for a while With a satisfied air and a complacent smile,
- While his unlucky star sat twinkling afar, And laughing a sort of celestial Ha! Ha! When it saw Fitz's seat was besprinkled with tar (As fences and stiles not unfrequently are) And we all know that pitch is a nasty stuff, which is
- Very much out of place on a gentleman's br-
- To the sensitive mind of a man so refined It's provoking to find a black patch of the kind, More especially when to strong language inclined :
- But it's all very fine to kick up a shine, Take advice and "REFLECT," it's a much better sign. He reflected-his choler began to decline ;
- When it came to a stop he made tracks for a shop Where they sell the contents of the whole Pharmacop--Here he asked if they'd got any liquid to sop
- Up the tar ; if they had, he'd be glad of a drop. Oh, yes," said the chemist, "I think I know what'll Remove it a once-price a shilling a bottle."
- Then homewards he stole, with his flask of benzole, T'wards his diggings, immensely consoled on the whole At reaching his lair without meeting a soul;
- Just a few paces more, and he entered his door, Which he bolted ; I've stated 'twas on the ground floor, Then he took off his--(things that we mentioned before) And he rubbed with a will, and he scrubbed them until,
- By dint of hard labour and no little skill, He'd effaced the "blank" spot from his kerseymere twill, And his (you know) presented a very clean bill;
- Then his toilct complete he surveyed himself in a Small glass, and by that time was ready for dinner.

There's a cry of "Hullo! Here's a precious rum go! Some fellah's been turning the gas on, you know, And it's filling the room up, just isn't it though !

Such a hullabaloo! What the deuce could they do? For the housemaid declared "they'd be all of 'em blew Clean out of the winder, or posscrbly through The ceilin', or else up the chimberly flue."

How the ladies did yell! Aye, and scream, too, as well, And go into hysterics; and, awful to tell, Some fainted clean off, though they most of 'em fell Into gentlemen's arms, through that horrible smell;

And the wailing and crying, and sobbing and sighing, To a man with weak nerves was exceedingly trying.

But Fitz-Rupert, old file-where was he all the while ? Why looking immaculate, spotless of guile, And striving his hardest to smother a smile.

He'd compared this and that, and of course smelt a rat: 'Twasn't likely he'd tell 'em, though, what he'd been at With his-(never mind what)-he was not such a flat As to open the bag and to let out the cat.

Oh, no *that* wouldn't do. So he tried to look blue And mortally funked, like the rest of the crew; Though he felt qualms of conscience, it's perfectly true,

When the housemaid suggested, "Best dine in the droring-Room above, while the gasfitters takes up the flooring.

Then the party repairs up the drawing-room stairs, While Fitz-Rupert slips into his room unawares ('Twas upon the ground-floor as denoted elsewheres).

Consolation it brings as the changes he rings On his clothes, and away to perdition he flings Those odious, odorous-(bother the things !)-Then his troubles take wings, and he hums and he sings,

"Hurrah! hurra-ah! Hang the benzole and tar!" 'Tis a grand transformation scene, better by far

Than when clown in the pantomime shouts, "Here we are !" 'Twas really magnificent, seemed just as if he Got mixed unobserved with the throng in a jiffey.

That dinner was not by any means what It would have been had it been served on the spot; The entrées were burnt, and the soup wasn't hot, The *poissons* were poison, the *rôt* was all rot;

While the din and the roar of the hammer and saw On the dining-room floor was a horrible bore, Increased now and then by the slam of a door.

It might aptly be said a wet blanket was spread O'er the company's head, and as evening sped They were heartily anxious to get off to bed,

And escape from a row-which my readers will own, I am Sure, must have been a complete Pandemonium.

Do you think they could go off to sleep ? Gracious no ! They were woke by a weird and unearthly Ho ! Ho ! Which apparently came from the regions below, Sounding preciously like an explosion (although It was Fitz who'd exploded in laughter, you know):

Such a sudden surprise made the lodgers all rise Up in bed and stare wildly, and rub at their eyes,

And utter discordant and piteous cries !

When the clock had struck four, and they heard nothing more, They turned over again and prepared for a snore; It was six when the gasfitters knocked at the door

So of course in the morning the folks were all yawning, And Fitz-Rupert thereon gave the landlady warning.

He said nobody knew what he'd had to go through, For worlds he would not undergo it anew, He wouldn't indeed ! not for double his screw, And the time had arrived he must bid them adieu,

For his nerves had been quite overcome by the sight Of the ladics all fainting and looking dead white, While that blood curdling night had produced such a fright He'd been seized with a fit, though 'twas happily slight (If he meant fit of laughing no doubt he was right), And he felt (well he might !) safety only in flight; But that when he got home he would probably write A letter etcetera, if he could get a

Few moments to spare, just to say he was better.

NEMO.

#### Practical Notes and Formula.

#### CARBOLIC-ACID POWDER.

Fuller's earth	••		14 oz. 187 grain
Crystallised earbolic aeid	••		1 " 250 "
Crude carbolic aeid	••	••	1 fl. oz.
Armenian bole 🔐 🔐	••	••	80 graius

Melt the erystallised carbolic acid at as low a temperature as puble and add the erude earbolie acid and Armenian bole; then introdu, in small quantities at a time, the fuller's earth; triturate nntil thore; hly mixed.

We take this formula from New Idea. Crude caplic acid is alone used in this country for making disinfeing powder.-ED.]

#### RAT POISON.

New Idea gives the following formula for a preparion similar to a popular American rat poison :--

Phosphorus .			••			15	grains
Sulphu	••	••	••		••	15	,,
Oil of turpentin	е	••	••	••		ł	fl. drac
" - mustard (	vola	tile)	••			2	drops
Arseuious acid	••	•••	••		••	100	grains
Lard	••	••		••	1	260	,,
Japan wax		••		••		90	22

Divide the lard into two portions (of  $\frac{2}{3}$  and  $\frac{1}{3}$ ). With the larger 1 tion melt the Japan wax. Tritniate the phosphorus with the volatile o and sulphur until a perfectly smooth mixture of the phosphorus and shur is obtained. Then mix in the arsenic and that portion of the lard hich was not melted with the wax. Lastly, add the lard and wax and trirate thoroughly until cold. It is advisable to incorporate with it some couring matter, such as burnt umber or Armenian bole.

#### BUTTER COLOURING.

Annatto						1 oz.
Turmeric	••	••		••	••*	3 "
Olive oil	••	••	••	••		3 .,
Spanish saffron	••	••	••		••	1 draehm
Alcohol		••			•••	5 drachms

Macerate the annatto and turmeric in the oil for four days, as the saffron in the alcohol for the same time. Filter the first, adding cugh oil to complete the measure. Add the tincture of saffron, and evaluate the alcohol at a gentle heat.

#### FRACTIONAL PERCOLATION.

ACCORDING to the Western Druggist, the following the method recommended by the National Formulary for re-tively.

Moisten the first portion (8 oz.) with the menstruum ind percolate in the usual manner. Set aside the first 3 flu oz. of the percolate, and continue until 24 fluid oz. more of er-colate have passed, which should be received in se ral portions, so that the more concentrated will be separate om the last weak percolate.

Then moisten the second portion of the drug (5 cz.) ith the most concentrated of the percolates received during the preceding operation after the first 3 fluid oz. had passed ind percolate again in the usual manner, using the seral reserved percolates, successively, as menstrua. Set asid be first 5 fluid oz., and continue the percolation until 10 ore fluid oz. have passed, which should also be receive in several portions.

Finally, moisten the third portion of the drug (3 oz.) ith the most concentrated of the last reserved percolates nd proceed as directed for the second portion. Collect the set 8 fluid oz. separately, and mix them with the two poins previously set aside so as to make 16 fluid oz. of extract

#### A SUBSTITUTE FOR GUM ARABIC.

which has recently appeared in the United States, has pen examined by Professor E. B. Stuart (Chicago), and repied by him to be a mixture of very pure dextrin and im arabic. It is sold in the form of scales, and has been find to be an excellent emulsifying agent.

11.1 ., ETE

111

n live , hei n

STR FR anklaring i -Al

च होली हो

A strated

met ite rat

tipicet.

E passed for 1

100 1878, apr

i spired to giv

the file

W IMPER (trai

de Falcon

i bidend me-

Lo Hay 18, 10tober, 105 44 d 1049, a 10001, 4, 9

- securiti

žina, 6,9001.

stand-class (

in Decemb

Exerted to

a Lid ; and

4. 1 divide

sbeequent!

iat was a ball

this being bei

el osta. The t si Linnance, E

W.E. Hor

Et Co, Minci

e ile debtor, w

falure to lo

this such as

R. Epitge, S

10- 8005 Lin

L'i especied i de observati

that three

Me

#### M 1y 26. 1888.]

#### FAILURES AND BANKRUPTCY REPORTS.

#### GEORGE DOBSON, High Street, Leicester, Chemist.

The public examination of this debtor was held last week. His accounts showed liabilities 7207. 15s. 4d, assets 1787. 3s. 10d. The debtor attributed his failure to the fact that for several years he had had much sickness in the house, and consequently heavy expenses, and to the keen competition in trade. As an instance of the latter he said that one firm in the town advertised hop bitters for retail sale at from  $7\frac{1}{2}$  to 10 per cent, less than he got them from the maker, and some patent medicines cost 8s. 11d. a dozen wholesale and were sold at 9s. retail. It was done at a loss for the purpose of advertising. Patent medicines and proprietary articles formed a large proportion of his total sales. Those chemists who did not sell them were in a marked minority. The use of patent medicines was increasing every year, the revenue from that source having doubled in five years. The examination was closed.

#### W. B. HODGSON, Manor Park, Essex, Physician and Surgeon.

THE public examination of this bankrupt was held on May 18, before Mr. Registrar Brougham, at the London Bankruptcy Court. The debtor, who filed his own petition on April 17 last, with liabilities amounting to 922.1 I8s. 2d. against assets valued at 1387. 14s. 10d., stated that his mother-in-law advanced 3001. to him in 1878, charging interest thereon at the rate of 10 per cent., and a sum of 701. in 1881 at 5 per cent., which moneys, however, he would not have been pressed for had not other creditors pressed for payment of their debts. He had practised as a physician and surgeon since 1878, and was even then in a state of insolvency. He agreed to give 3251. for the practice at Manor Park, but it had not realised his anticipations, and it was in consequence of the proceedings taken by the vendor that he had been compelled to file his petition. The examination was ordered to be concluded.

#### Re THOMAS ROPER (trading as Thomas Roper & Co), formerly of 6 Falcon Square, Wholesale Druggist.

THIS was a dividend meeting, held in the London Bankreptcy Court on May 18, before Mr. Registrar Brougham. The debtor, in October, 1857, filed a declaration of insolvency under the Act of 1849, and submitted accounts showing creditors for 13,801*l*. 4*s*. 9*d*.; liabilities, 643*l*. 2*s*. 10*d*.; and creditors holding securities, 8,972*l*. 2*s*. 1*d*. The assets showed good debts to the amount of 5,544*l*. 15*s*. 5*d*.; doubtful debts, 1,002*l*. 9*s*. 4*d*.; property, 2,523*l*. 14*s*. 3*d*.; and prooerty with creditors, 6,900*l*. In the December following he blained a second-class certificate of conformity. The Official Assignee, in December, 1857, reported that the gross sum received amounted to 3,785*l*. 12*s*. 8*d*.; the costs paid were 1,135*l*. 12*s*. 11*d*.; and the debts proved up to that time were 13,314*l*. 4*s*. A dividend of 3*s*. 8*d*. in the pound was hen paid, and subsequently there was a second dividend of ls.  $7\frac{1}{2}d$ , and a third dividend of 13*s*. 4*d*. It was now reported that there was a balance in hand of 1,146*l*. 13*s*. 11*d*., was subject to costs. The usual order for distribution was nade. Messrs. Laurance, Baker & Waldron were solicitors or the Assignee, Mr. E. Horner, wholesale druggist.

#### DELPECH & Co, Mincing Lane and Havre, Colonial Merchants.

In this case the debtor, who traded as G. M. Delpech & Co., ttributes his failure to losses on speculative purchases of olonial produce, such as musk, quinine, gum, shellac, austard, ginger, sponge, sugar, and coffee. He has filed counts showing gross liabilities  $24,392\ell$ . 6s. 3d., of which  $1,079\ell$ , 17s, 1d, is expected to rank against assets  $764\ell$ . 10s, 7d. Iccording to the observations of the Official Receiver, the lebtor states that he commenced business in 1878 without apital, but subsequently accumulated a considerable surplus, nd estimates that three years ago he was worth about

5,000*l*. He attributes his failure to heavy losses by bad debts since January last. The bad debts are stated to represent principally balances due from customers in respect of differences on speculative purchases of produce, and include a sum of 14,113*l* due from a person who is said to have left the country, the loss by whom is the immediate cause of the debtor's insolvency. The debtor's books do not disclose the results of his trading and his financial position from time to time. According, however, to a balance-sheet prepared for the purposes of the present proceedings, his affairs at December 31, 1887, show an approximate surplus of 9,251*l*. 19s. (including as an asset 12,274*l*. then due from the person above-mentioned, and now treated as a total loss). "Creditors unsecured" include a claim of the debtor's wife for 1,596*l*. 4s. 1d. for money lent; but this claim cannot rank for dividend in competition with the other creditors.

Appended is a list of the principal creditors :---

#### Unsecured.

Loop IV IV OD IV L					£ s. d.
. ,	•	••	••	••••••	
		••	••	••••••	
Cresswell, R., & Co., Red Lion Squa	re	••	••	•• •	
	• •	••	••	•• •	
Colman, J. & J., Cannon Street .				• ••	
Drake, J. P., & Co., 11 Mineing Lar	ie .	••	••	•• •	
	•	••	••		
	• •	••	••		
, .		••	••		
	• •	•			
, 0	•••	••	••		. 150 2 7
		••			. 161 12 4
Leech, Welchman & Co., Lime Stre	et .				. 125 <b>0 0</b>
Lespard <b>a</b> & de Thorey, Paris					. 656 <b>4 0</b>
Lindsay, W. A., & Co., Old Broad S	Street		••		. 20 2 5
Moon, Bower & Co., Mineing Lane	••				. 452 19 4
Moore, W. H., Antigua, West Indies	ş. ,				. 554 10 7
T . T . A CL					. 18 16 2
Contraction C. Donto				•••••	401 0 4
Demand I. Deuts					05 7 0
Oftongen E. Dunig					450 1 4
Doney Drown to a fr Hadd					105 11 0
Dobl Endner Davis					05 15 0
Power Bros. & Co., Crosby Square					700 19 4
Rouse, J. R., & Co., Fenchurch Stre				••••••	011 0 8
0 11		••		••••••	16 17 11
Colorest At 177 1 TT 1				•••••••	<b>FO O</b>
Sutton & Co., Royal Exchange Buil				•• •	. 72 <b>2 4</b>
Souratty & Co., 134 Fenchurch Stre		•••			10 7 0
Berry, O., trustee for Wood & Rhen				•• •	
Williams, J. E., Commercial Sale R				••••	10 0 4
Dudok de Wit & Co., Amsterdam		••		•••••	707 17 0
		••	••	••••••	1 011 0 4
D		••	••	••••••	001 10 7
London and St. Katharine Dock Co		•• • T col	•• Lon Loll	·· ·	74 11 6
G 1 1 1 1 20 1 T					007 11 1
				•• •	
01 1 0 0 3T TT 1		••		•• •	70 0 0
		••		••••••	14 0 4
	••	••	••		
a. t. e a a 1	••	••	••		. 16 9 6
	• •	••	••	•• •	. 15 10 0
Gooding, Geo., Greenhithe	••	••	••	•• •	. 1953
Fully	1 See	uned			
					100 0 0
Coulon, Berthond & Co., 41 Thread		e Stree	ac	••••••	. 120 0 0
Ruffer & Sons, Lombard Street	••	•••	••	••	. 7,863 18 10
Partl	u Sec	ured			
					. 809 18 7
Delpech, J., Paris	••	•••	••	•• •	. 003 10 1

A YOUNG man recently asked a druggist for a dose of castor oil for his wife who had just been *confound*.

A LITTLE LATE, AND SLIGHTLY OUT.—An Austrian paper, quoting from the *Apoth. Zeit*. in April, says :—"The English Pharmaceutical Society, spurred to action by the proceedings of the German Apotheke Verein, has elected a commission from its members to give more detailed descriptions and exact information as to the manufacture of those drugs, galenicals, and chemicals which have not been included in the last English Pharmacopecia, but which are frequently employed. This commission will publish the result of its labours under the title 'Unofficial Formulary.'"

#### [May 26, 18

:11

#### PARTNERSHIPS DISSOLVED.

Nell & Bird, Penarth, Cardiff, surgeons and apothecuies.
 Percy & Anstey, Truro, chemists and druggists, and wine and spirit merchants.

Smith, H., & Cooke, L., Aspull and elsewhere, surgeons.

#### THE BANKRUPTCY ACT, 1883.

RECEIVING ORDERS.

Fraser, James Pimm, & Cory, John, Mineing Lane, City, colonial brokers.

Higgins, John, Pewsey, Wiltshire, chemist and druggist.

Shellard, Nathan John, Monmonth (trading with G. Lindsey as the Monmonth Colonr Company), paint and colour manufacturer.

#### FIRST MEETINGS AND PUBLIC EXAMINATIONS.

- Delpech, George Marius (trading as G. M. Delpech & Co.), Mineing Lane, City, Havre, and Greenhithe, Kent, colonial mcrchant and broker-May 29, Bankruptcy Bnildings, Portugal Street, Lincoln's Inn Fields; June 13, 34 Lincoln's Inn Fields.
- Higgins, John, Pewsey, Wiltshire, chemist and druggist-May 30 Official Receiver's offices, Swindon; June 13, Corn Exchange, Swindon.
- Preston, Henry Horbury, Pendleton, late of Salford, surgeon-May 31, Official Receiver's office, Manchester; June 4, Court House, Salford.
- Tinsley, Richard William, Rillington, Yorkshire, late of Whitby, veterinary snrgeon-May 29, Official Receiver's office, Scarborough; June 5, Court House, Scarborough.

#### ADJUDICATIONS.

Dixon, Henry Benjamin, Hanley, wholesale and retail chemist.

Hammond, Benjamin, St. Leonard's-on-Sca, dental surgeon.

Higgins, John, Pewsey, Wiltshire, chemist and drnggist.

- Kroll, Ludwig (trading as L. Kroll & Co, and the British Hygienic Company), Blundell Street, Caledonian Road, late of Mark Lauc, City, chemical manufacturer.
- Shellard, Nathan John, Monmonth (trading with G. Lindsey, as the Monmouth Colour Company), paint and colour manufacturer.

#### NOTICES OF DIVIDENDS.

- Aston, William Clarke, Church Bank, Tattenhall, Cheshire, druggist, grocer, and general dealer-first and final div. of 4s. 7<sup>a</sup>/<sub>4</sub>d., May 29, Bankrnptcy offices, Chaster.
- Glanville, Francis Ferratus, Clareville Grove, late of Queen's Gate, Sonth Kensington, surgeon—first div. of 2s. 9d., any day except Saturday, Chief Official Receiver's offices, 33 Carey Street, Lincoln' Inn.

#### APPLICATION FOR DEBTOR'S DISCHARGE.

Barnes, William Jacob, Rainham, Essex, chemical manufacturer-July 9, Shire Hall, CheImsford.

#### ORDERS MADE ON APPLICATIONS FOR DISCHARGE.

- Hannan, Francis John, Woodstock, Oxfordshire, late of Worksop, and Downton, Wiltshire, doctor of medicine-discharge granted as from July 26, 1888.
- Whitham, Joseph (trading as Joseph Witham & Co, and as the Whiteeroft Printing Company), Miles Platting, Pendleton, and Baxenden, Lancashire, also trading with T. Brayshaw, as Whitham & Brayshaw, at Manchester, and residing at Nelson, Lancashire, chemical mannfactorer, dycr, printer, and galvaniser-unconditional discharge granted.

#### ADJUDICATION ANNULLED.

Clapham, Reginald, Sunderland, formerly innkeeper, now aërated water manuacturer-grounds of annulment, all creditors paid in full.

#### SCOTCH SEQUESTRATION.

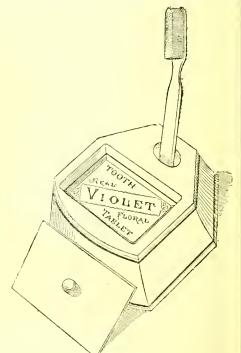
Warren, Thomas, Glasgow, bottle manufacturer-May 25, at 12 Faculty Hall, Glasgow.

#### Notes of Novelies.

#### WARRICK'S FLORAL TOOTH TABLETS.

MESSRS. WARRICK BROTHERS are introducing tooth tects made in various tints and odorous with the bouque of various flowers. These are apparently compressed pow rs; they contain neither soap nor sugar in any form, ich tablet is fitted into a metallic box with a glass top ind a box containing a dozen of these (selling at sixpence ich) is a pretty counter ornament.

To encourage the use of these tablets Messrs. Warricare also putting before the trade a toilet appliance, which bey



call the "Dentoilette," which is made of white china giad with receptacles to hold one or two tooth brushes and he tablet, or, if preferred, tooth powder or tooth paste. he sketch above shows one of the dentoilettes fully equippe

#### THE "CYCLONE" PULVERISER.

At the invitation of Messrs. Couper, McCarnie & Co of 1 Fenchurch Avenue, E.C., we inspected the other day a disintegrating and pulverising machine in action at in Street Mills, Bishopsgate. The machine is of American or in, and has been named the "Cyclone," in remembrance, i is said, of the fact that an Illinois farmer conceived the ide of its principle through witnessing the devastating action a cyclone in his native State, thus illustrating the truth of le old saying that it is an ill wind that blows nobody gd. The farmer, having got hold of his notion, proceeded to the it out, but could not get it to work otherwise than on pair, the honour of realising it in a practicable shape remaing with the present patentee of the machine, a gentleman in this country with a view to effect the sale of his for m patents.

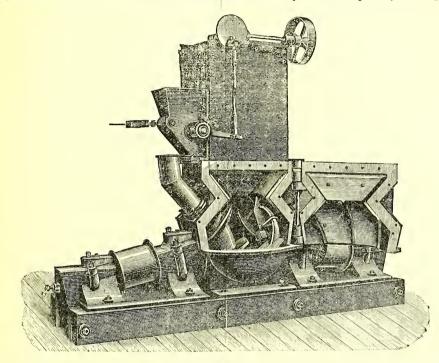
The machine performs its functions in an extremely sir le manner. It consists of two cast-iron fan blowers, per of  $1\frac{1}{2}$  feet long, and somewhat resembling the screw-proper of a steamboat. These two fans are placed opposite in

2 be beld

Theide

#### May 26, 1888.]

another in a cast-iron box, their lower parts being about 2 inches, and their upper parts 9 inches apart, like two halves of an iron bowl disconnected. By means of iron shafts the fans are connected with the driving-gear of a steamengine, one of 12-horse power (English) working the machine inspected by us, which is one of the largest size. One fan is set in motion from left to right, and its fellow from right to left, at the rate of about 2,000 revolutions per minute, and thus two currents of air, or cyclones, are generated, each revolving round its own axis in an opposite direction, and meeting in the centre with such force as to reduce even the hardest materials to an impalpable powder. The breakingop process takes place as soon as the crude material enters handful of material remains between the fans, the whole almost being drawn into the collecting-bin at the rear, and as no material ever comes in immediate contact with either of the fans, it is claimed that the wear and tear of the machine is practically nil. It should be said that the machine was worked with closed doors, so that the actual action of the fans upon the material was invisible, and that the patentee declined to accede to our request to show us the working of the machine with open doors, under the plea of possible danger; but apart from this fact there is a decided air of genuineness about the invention, though, of course, a casual and necessarily superficial view of its working would not reveal any drawbacks possibly existing. The patentees



the point where the two cyclones meet, and the broken-up particles are further reduced to powder by mutual attrition, the entire process occupying an almost incredibly short time. When the material has been powdered the dust is immediately cast out into a collecting-chamber or dust-bin at the rear of the machine, passing on its way through a net of finer or coarser meshes according to the degree of fineness to which it is desired to reduce the material. The machine is fed from the floor above, the material passing through a hopper and falling thence into the powdering-chamber. Air is admitted through tubes placed above and below each fan, the suction being, of course, very considerable, but capable of regulation and control. When the grinding operation is finished, scarcely a

PERMANGANATE OF POTASH IN COBRA-POISONING.—As is well known, Mr. Vincent Richards advocates the employment of permanganate of potash in this form of snake-bite. Only recently an opportunity occurred to him to give it a trial in the case of himself. A Calcutta paper says that he had a narrow escape the other day whilst experimenting with a cobra at the dispensary of the Eastern Bengal State Railway. He had taken out one of the cobras from its case, when, while he held it in his right hand, the reptile bit him severely on the index finger of the left hand. With remarkare about to form a company to exploit the patents for Europe, India, and the colonies, and they also propose to erect a factory in England. They look to chemical works, wholesale druggists, spice grinders, and drysalters for a con siderable share of their orders, these branches furnishing, it is said, their best customers in the United States. The material ground in our presence was phosphate rock, but we were shown samples of a large variety of articles, such as marble, plumbago, myrabolans, sumach, various drugs, &c., pulverised by the machine, and the patentee added, with a wink, that "down East" in his own country the "Cyclone" was used to grind up hens' feathers so as to resemble the finest eiderdown—presumably for sale among the verdant population of the Western parts of the same country.

able presence of mind, it is stated, Mr. Richards, having despatched the snake by violently dashing it to the floor, excised the bite, laying the finger open to the bone. He then applied some permanganate of potash, and, having tightly ligatured the finger and the left arm, instantly drove down to the residence of Dr. McLeod. Mr. Richards was better shortly after 3 P.M., and was kept under observation till six o'clock, when he was pronounced to be out of danger and allowed to go home. But for the prompt measures taken, it is expected that Mr. Richards would have fallen a victim to the cobra.

#### PHARMACY ACT (IRELAND), 1875, AMENDMENT BILL.

THE following is the text of the Bill which has been introduced into the House of Lerds by the Earl of Milltown :-

#### MEMORANDUM.

This is a Bill to amend the Pharmacy Act (Ireland), 1875. That Act was passed for the purpose, amongst others, of preventing the sale of poisons by unqualified persons, which was carried on in Ireland to the great danger of the public. It accordingly enacted stringent provisions against the sale of poisons by persons not registered under the Act, but having regard to vested interests, it saved by section 31 the rights of chemists or druggists who were practising as such in Ireland on their own account at the time of the passing of the Act (11th August 1875). Unfortunately the Act contained no provision for the registration of such chemists and druggists, and the result has been that many unqualified persons have since the passing of the Act commenced the sale of poisons, and it is almost impossible to obtain a conviction against them, owing to the difficulty of proving that they have commenced this business since the passing of the Act. The Bill provides machinery for the registration of all persons who were practising as chemists and druggists in Ireland prior to August 11th 1875, the date of the passing of the Act, retaining their rights in full, and further enables any person who has commenced business as a chemist and druggist since that datc to get himself registered and thereby entitled to eontinue the sale of poisons on passing a very simple examination showing an elementary knowledge of ehemistry and drugs, without which the sale of poisons cannot safely be carried on.

The Bill also contains further provisions for preventing the evasion of the original Act by fixing the proprietorship of all establishments in which the sale of poisons or dispensing of medical prescriptions is carried on, and also for securing that such establishments shall be personally managed by duly qualified persons.

Whereas it is expedient for the safety of the public that all chemists or druggists keeping open shop for the sale of poisons should be registered, and that the Pharmacy Act (Ireland), 1875, should be amended :

Be it therefore enacted by the Queen's most Excellent Majesty, by and with the advice and consent of the Lords Spiritual and Temporal, and Commons, in this present Parliament assembled, and by the authority of the same, as follows:

1. This Act may be cited as the Pharmacy Act (Ireland), 1875, Amendment Act, 1888.

2. This Act shall apply to Ireland only.

3. In this Act-

"The principal Act" means the Pharmacy Act (Ireland), 1875.

"The society" means the Pharmaceutical Society of Ireland.

"The council " means the council of the society. "The registrar " means the registrar of the society. "The treasurer " means the treasurer of the society.

" Poisons" means all articles deemed to be poisons within the meaning of the Act thirty-three and thirty-four Victoria, chapter twenty-six, intitude "An Act to regulate the sale of poisons in Ireland."

4. The registrar shall, in the manner by this Act provided, from time to time make out and maintain a complete list, to be called "the Register of Druggists in Ireland," of all persons by this Act authorised to be registered as druggists; and the provisions of the principal Act with respect to the registers thereby authorised shall mutatis mutandis extend and apply to such register, except so far as such provisions are altered by or are inconsistent with the provisions of this Act. All persons so registered shall be entitled to keep open shop for the sale or retailing of poisons.

5. Every chemist or druggist who was practising as such in Ireland on his own account before the passing of the principal Act shall be entitled to be registered as a druggist under

this Act on complying to the satisfaction of the council via the following provisions (that is to say):-

(1) He shall, on or before the first day of December he thousand eight hundred and eighty-eight, make applican in writing to the council to be registered under the provisas of this Act.

(2) Such application shall be accompanied by a statuty declaration of the applicant that he was practising a chemist or druggist on his own account in Ireland prioto the eleventh day cf August one thousand eight hundred id seventy-five, and stating the name of the place where e carried on such practice, and also by statutory declarations from two legally qualified medical practitioners, registerelas such, that the applicant has to their knowledge carrieon such practice on his own account at that place prior to be date aforesaid: Provided that it shall be lawful for he council to require from any applicant before entering is name in the register such further or additional evidencias they think fit of the truth of the statements contained in le statutory declaration so made by him, or, if they think fi to dispense with either or both of the statutory declarations from medical practitioners, and to take in lieu thereof sh other evidence as they shall think sufficient.

(3) He shall pay to the treasurer of the society a fe of two guineas.

6. Every chemist and druggist who was practising as sh on his own account in Ireland and styling himself as sch between the eleventh day of August one thousand ent hundred and seventy-five and the first day of January ae thousand eight hundred and eighty eight, or some par of that time, and every person who, prior to the eleventh ay of August one thousand eight hundred and seventy-five, as an assistant or apprentice to any chemist and druggist, sul be entitled to be registered as a druggist under this Acon complying to the satisfaction of the council with the follying provisions :-

(1) He shall, on or before the first day of December 1e thousand eight hundred and eighty-eight, make applican in writing to the council to be registered under the provisins of this Act.

(2) Such application shall be accompanied by a statury declaration of the applicant that he was practising a chemist and druggist on his own account in Ireland, hd styling himself as such between the dates aforesaid, or at he was an apprentice or assistant to a chemist and drug st prior to the eleventh day of August one thousand eht hundred and seventy five, as the case may be, and the nice of the place where hc carried on such practice, or was sh apprentice or assistant, and also by statutory declaratas from two legally qualified medical practitioners registereas such that the applicant has, to their knowledge, carriedon such practice at that place on his own account between he dates aforesaid, or has been an apprentice or assistant (a chemist or druggist at that place prior to the eleventh 1y of August one thousand eight hundred and seventy-five as the case may be: Provided that it shall be lawful for le council to require from any applicant before entering is name in the register such further or additional evidence as they think fit, of the truth of the statements containedin the statutory declaration so made by him, or, if they that fit, to dispense with either or both of the statutory declations from medical practitioners, and to take in lieu the of such other evidence as they shall think sufficient.

(3.) He shall be examined with respect to his knowlege of the English language, arithmetic, elementary chemisy, and the appearance of and usual tests for the various dre, poisons, cr poisonous substances in general use, and s ll obtain from the examiners appointed by the council to l d such examination a certificate of having satisfacte y passed the same.

(4.) He shall pay to the treasurer of the society, on 3senting himself for such examination, a fee of two guins, and a further fee of half a guinea on being registered.

7. It shall be lawful for the council, if they think fit o receive the application, in the two preceding sections n tioned, from any applicant on any day after the first dapt December one thousand eight hundred and eighty-eilt, and not later than first July one thousand eight hund and eighty-nine, and to cause the applicant to be registed on his complying with the conditions in those sections n l tioned applicable to his case, and on payment of sh

[May 26, 1838]

autenceding on this of the princ stair mentione is by this Act inse altered by sistered droggist the in every year ladien shillings a an before the date same of such perso and be restored difi to make an ord ophimacentical che red the principal. in bainess on his resociety, shall to there rear par t ti sipence, and us sation the regis sailby direction of take to that effect. divid son, not and after the first aludeighty-nine site or use the t land miles such tole this Act an ation thirty one of tiel to sell or kee pixos by reason ating as such in art the passing of Wated as a July in contravention cince be liable to : L'he mlawfol fo up for the retailing partiplions, or to a thesed for that po the of this enac Leto pay a penal s routh of Januar pitted copies of th 1 of the register of carries in each all be the daty Li offences agains rilis act, or the Act upler tweety-six, i istos in Ireland. and every sum of

Plason so offendin

is shall be the mean

station or persons

Ini retailing poiston

apscriptions, shall

ing and the retailing

at and medical po

the purposes aforess game person quali

a the parposes at

is in costraves tion

diace be liable to T

alle lawfal for the

dresed to the pro-ize open shop is ke te compounding of

to be delivere

a teristere

time in the time 's

a popietors within

ratofortich it wr

Y THE ADD address

additional fee, not exceeding one guinea, as the council shall determine.

8. The provisions of the principal Act with respect to the examinations therein mentioned shall extend and apply to the examinations hy this Act authorised, except so far as such provisions are altered by or are inconsistent with the provisions of this Act.

9. Every registered druggist shall, on or before the first day of December in every year, commencing with the year one thousand eight hundred and eighty-nine, pay to the treasurer a fee of ten shillings and sixpence, and unless such fee is paid on or hefore the date aforesaid, it shall be lawful to erase the name of such person from the register: Provided that the same may he restored by direction of the council, if they think fit to make an order to that effect, on payment of the said fee and such additional sum, not exceeding one guinea, as the council hy such order shall direct.

10. Every pharmaceutical chemist registered as such under the provisions of the principal Act after the passing of this Act who is in husiness on his own account, and is not a member of the society, shall on or before the first day of December in every year pay to the treasurer a fee of ten shillings and sixpence, and unless such fee is paid on or before the date aforesaid it shall he lawful to erase the name of such person from the register: Provided that the same may be restored hy direction of the council, if they think fit to make an order to that effect, on payment of the said fee and such additional sum, not exceeding one guinea, as the council by such order shall direct.

11. From and after the first day of January one thousand eight hundred and eighty-nine it shall be unlawful for any person to assume or use the title of registered druggist in any part of Ireland unless such person shall be registered as a druggist under this Act; and notwithstanding the provisions of section thirty-one of the principal Act no person shall he entitled to sell or keep open shop for the sale or retailing of poisons by reason that he was a chemist or druggist practising as such in Ireland on his own account at the time of the passing of the principal Act, unless he shall be registered as a druggist under this Act; and any person acting in contravention of this enactment shall for every such offence he liable to pay a penalty of five pounds.

12. It shall be unlawful for any registered druggist to keep open shop for the retailing, dispensing, or compounding of medical prescriptions, or to allow any part of his shop or premises to be used for that purpose; and any person acting in contravention of this enactment shall for every such offence be liable to pay a penalty of five pounds.

13. In the month of January in each year the registrar shall send printed copies of the register of pharmaceutical chemists and of the register of druggists to the inspector of weights and measures in each constabulary district in Ireland, and it shall be the duty of such inspector to report to the council any offences against the provisions of the principal Act or this Act, or the Act thirty-three and thirty-four Victoria, chapter twenty-six, initial and within his district, and one third of every sum of money recovered as a penalty against any person so offending shall be paid to any such inspector who shall he the means of hringing such person to justice.

14. Every person or persons lawfully keeping open shop for selling and retailing poisons, or dispensing or compounding medical prescriptions, shall personally manage and conduct such shop and the retailing, dispensing, and compounding of poisons and medical prescriptions therein, or shall employ for the purposes aforesaid as an assistant or manager in such shop some person qualified according to law to keep open shop for the purposes aforesaid; and any person or persons acting in contravention of this enactment shall for every such offence be liable to pay a penalty of five pounds.

15. It shall he lawful for the registrar at any time to write a letter addressed to the proprietor or proprietors of any premises where open shop is kept for the selling, retailing, dispensing, or compounding of poisons or medical prescriptions (such letter to he delivered on the premises or to be forwarded by post as a registered letter according to the post office regulations for the time being in force), requiring such proprietor or proprietors within seven days from the delivery of such letter to furnish in writing to the registrar a statement of the name and address of the horâ fide proprietor or proprietors of such shop, and if such proprietor or proprietors do not personally manage and conduct such shop, the name of the duly qualified manager or assistant managing or conducting the same and the description of his qualification, and in case such proprietor or proprietors neglect to furnish such information to the registrar within the time aforesaid, he or they, and each of them, shall be liable to pay a penalty of five pounds for every day during which such default shall continue; and so long as such default shall continue it shall be unlawful for any person to sell or retail, dispense or compound, poisons or medical prescriptions on such premises; and every person or persons acting in contravention of this enactment shall for every such offence he liable to pay a penalty of five pounds, unless he or they shall prove to the satisfaction of the court or justices having jurisdiction in the case that he or they did not know of such default.

16. Section eleven of the principal Act shall he read and have effect as if the words "the second monthly meeting" were substituted for the words "ten days" in that section.

17. All sums payable to the treasurer under this Act shall be applied by him under the direction of the council to the purposes of the principal Act and this Act.

18. All penalties recoverable under this Act shall he recoverable and applied in the same manner as penalties recoverable under the principal Act.

19. This Act and the principal Act shall he read together and construed as one Act.

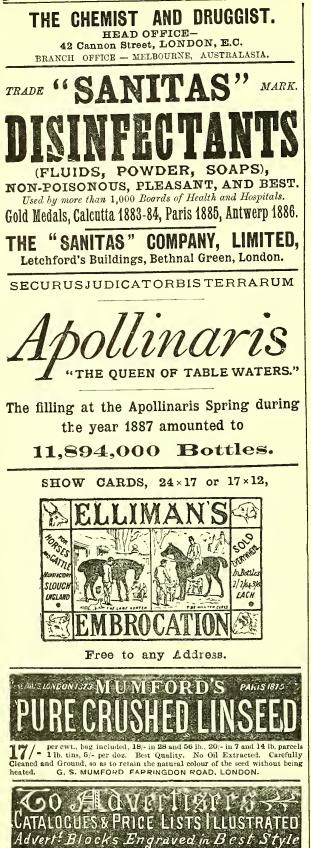
#### Veterinary Treatment.

#### FLUKE OR WORMS.

M<sup>R.</sup> WILLIAM GIBSON, a large stock-keeper of New South Wales, writes to the Sydney Mail regarding the use of arsenic for the cure of fluke or worms in sheep. He strongly disapproves of the remedy, and says that if the sheep get salt and sulphate of iron regularly the diseases are prevented. The way in which he uses his preventive is as follows :-Take 10 lbs. Liverpool salt, 1 lb. powdered sulphate of iron, mix these thoroughly together, damping the salt well with water, turning it every day for three days at least, till it acquires a greenish rusty tinge. If given to the sheep without being properly mixed it scours them. Give this to the sheep every month or six weeks of the above strength at first, then reduce the strength of the iron hy adding to the mixture more salt, so as to make it, instead of 1 in 10, 1 in 16 parts. Give two full-sized buckets to every thousand. Four times a year, Mr. Gibson adds a quart of turpentine to the two buckets, and he states that it requires care and patience to get the whole of the sheep to take the mixture from the troughs, but after a time they get to like it and eat it more greedily than the plain salt. Sheep which are affected with worms should get 1 to 2 drachms of turpentine to 1 oz. of oil, and two or three doses weekly of the salt and sulphate with the turpentine. Another remedy for expelling the worms is 3 lbs. soap (common yellow),  $\frac{1}{2}$  lb. tobacco, dissolved in 5 gallons water; boil and mix well. Dose: A small olive oil bottle to each sheep. On many stock farms in the colony this mixture has been found to be exceedingly effectual.

DR. GUTTERMANN, a Göttingen chemist, has prepared pure terchloride of nitrogen, and at the expense of shattered nerves and disturbed eyesight has ascertained that the pure oily liquid is so sensitive to the actinic rays of sunlight as to be violently dissociated thereby. Yet the chloride may be heated to  $90^\circ$  C. without exploding, but another 5 degrees of temperature suffice to finish the experiment, the apparatus, and the chloride. The secret of Dr. Guttermann's success is that he worked in dull wintry days.

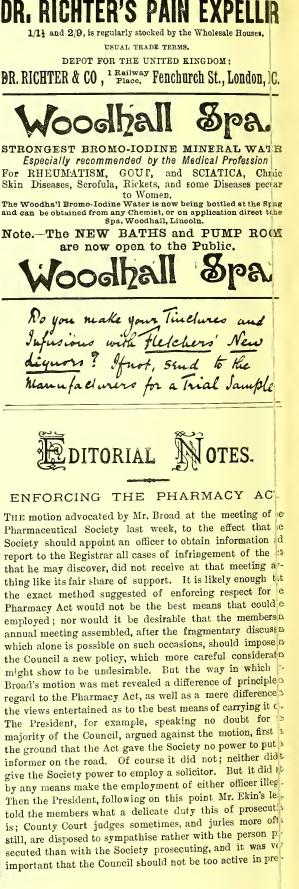
"You must push matters a little, James," said the druggist to the new boy. "By calling a customer's attention to this article and that article, you can often effect sales." Yes, sir," responded the new boy, and then he hastened to wait upon an elderly female who wanted a stamp. "Anythin' else, mum?" inquired the ambitious boy, politely. "Hair-dye, cosmetic, face powder, rheumatic drops, belladonna, mole destroyer—"The elderly female licked the stamp viciously and left the door open as she went out.



at Moderate Cost + + + + APPLY TO

W.BARKER & SON. 172, STRAND .LONDAN

692



[May 2', 1889

i Di di se

sitis atteri

ista (her.

र्गाया देश केह

ities to the ag

ad the latter

whip from car whip too that which he prosect to the prosect to the of the

ingun a sea

ad write

CRETROREDED!

r menable d

interes Cours

utra serions le

z se the pro

or less and less 1

rice Connell to Beplannary, Tractico, we w

in termed r

TANK ON the limits on the limits on the limits of the limi

addition in tax

el treetter to

it's postment

in but there w

ANT ANT ANTICAL

IN STRE FREMA STRE FREShred

LITZITTET

top one of the

1.5. T 1. 85

its the las

to the topic.

STS AS I

sincates in

z: and have

PERS COLLEN

Estimations /

A RAN WEED

in rate

and egt

Site let that

is under the state of the state

inter within ?

dicinie.

3 - L - 1 - 5 - 5

of stick &

SHE'S IL SPA

til Diedin

the base of

THE S DR

ing its rights. This old argument has done duty a great many times, but it is an utterly baseless one. We have a right to assume that when Queen, Lords, and Commons resolved to pass the Pharmacy Act they meant it to be obeyed; they did not express a mere pious opinion and leave that on the statute book subject to the approval of County Court judges. If one or two of the latter have chosen to indicate their personal opinions, this is not a circumstance which should deter a public body from carrying out a duty entrusted to them; and it is likely too that such remarks would soon cease if it appeared that the prosecutors were in real earnest, and believed in the justice of the proceedings they were taking. To look on smiling while fifty people infringe the Act, and then suddenly to jump on some poor little huckster, which is the present idea of carrying out the provisions of the Act "with discretion," is a process which to our thinking is capable of some improvement.

There is no reasonable chance of a new policy being inaugurated by the new Council; moreover the surplus funds once available for a serious legal contest are practically gone. so that, given even the problematical "change of heart," there is getting less and less probability of any serious effort being made by the Council to put down the biggest and most dangerous foe to pharmacy. If there were the smallest hope of inducing any action, we would press on the new Council the duty of taking renewed proceedings against the illegitimate drug companies on the lines which were so nearly successful in Edinburgh a year ago. It will be remembered that a Scotch judge decided in favour of the very reasonable contention that, though a limited company may not be liable to a penalty for trading as a chemist and druggist, yet that the individual shareholders, if not qualified, were thus liable if they associated together to do what they might not do separately. This judgment was overruled by the highest court in Scotland, but there was every reason for testing the opinion of the English courts on the important points thus raised. The Pharmaceutical Council in August last feebly protested against some remarks made by one of the judges who heard the case, resolved to give the subject further consideration, and straightway buried the whole business in oblivion. Perhaps one of the new members of the Council will have the curiosity to ask for the result of the further consideration which the last Council mysteriously hinted hey would give to this topic.

#### DRUGGISTS AS DRAM SUPPLIERS.

EMPERANCE advocates in Scotland and Ireland are exed at present, and have been for many years, by two orms of intemperance common to the most depraved in the ubstrata of the populations of the two countries. In Scotnd the Sunday-drinking question was supposed to have 3en settled long ago, when the Forbes-Mackenzie Act came to force, shutting up all public-houses from eleven o'clock a Saturday nights until eight o'clock on Monday mornings; it it is a notorious fact that this Act, whatever good it may we done-and it undoubtedly has been the means of controlig the drink traffic within reasonable bounds-has not put end to Sunday drinking. In the larger towns across the veed there are ways and means of satisfying the Sunday ming's craving which would have astonished Forbesackenzie. Shebeens, in spite of frequent convictions and avy fines, flourish exceedingly; bogus clubs carry on the fic more openly; and the thirsty wretches who cannot ord either of these luxuries have found that some druggists pply an article which temporarily satisfies their inward wing. This article is methylated spirit. Inasmuch as

the legislature a little more than thirty years ago allowed the use of duty-free "spirit in the arts by rendering such spirit "so impalatable that it would effectually repel ordinary drinkers," we may take it that consumers of alcohol in this form are extraordinary 'drinkers—persons whom Acts of Parliament cannot cover.

It is at first sight somewhat difficult to understand how this peculiar drinking habit should have arisen in Scotland. but the reasons are not far to scek. First there is the fact that the use of spirits as a beverage is much more common in Scotland than in other parts of the kingdom; whisky is the national drink, "the glass" for joy or sorrow, "the bottle" for wedding or funeral, and, above all, the tipple for the Saturday night's carousal. In the year ending March 31, 1886, Scotland's consumption of spirits was 6,297,365 gallons, or 1.55 gallon per head of the population; Ireland came next with 4,754,670 gallons, or 1 016 gallon per head, and England consumed 15,290,816 gallons, or 0 516 gallon per head. Scotland had then her 128 distilleries as compared with England's 11 and Ireland's 28, and she manufactures nearly half of the spirits distilled in the kingdom. It scarcely needs these figures, however, to prove that whisky is the common intoxicant of Scotland, for it is a fact which is generally admitted and deplored in pulpit and press over the whole of broad Scotland. "Whisky is a bad thing, especially bad whisky," runs the saying. Unlike beer, its after effects are not relieved by such mild beverages as ginger beer, and hence it is that people drink, apparently with some show of satisfaction, the nauseous and pungent methylated spirits. For the supply of this druggists are wholly responsible, as there are no oil and colourmen in Scotland, and drysalters are not numerous. If such shops existed more generally it is questionable if police regulations would permit them to be opened on Sundays. It is probable that the extent of the trade in methylated spirits has been much exaggerated, as, for example, in the Report of the Superintendent of the Edinburgh Police, which we published a fortnight ago; but few druggists are not asked for it on Sundays, though the more respectable refuse to supply it because they suspect it is to be used as a beverage. It would be well for themselves if druggists in the poorer quarters of the large towns would follow this example, for every pennyworth which they sell, no matter how plausible the story of the purchaser may be, renders the seller liable to a fine of 100%, if it be used as a beverage -- so the Board of Inland Revenue delared in a letter which we published in 1877. That decision of the Board still holds good, and was acted upon in 1885, when half-a-dozen Glasgow druggists and doctors were fined in sums from 10% to 40% for the sale of the spirits on Sunday. It is inconceivable how intelligent and cultured men, such as druggists generally are, should lend themselves to the encouragement of this pernicious habit; the explanations of purchasers are so transparently unreal as to amount almost to an indication that the spirit is not to be used for the purpose stated. One after another, for example, declares that he is suffering from rheumatism and requires the spirit for outward application, or else that he is a French polisher who " has to go early next morning to a job in the country." The licence for the sale of methylated spirits carries with it certain responsibilities which the licensee should keep well in mind. The State, for the purpose of encouraging the arts and manufactures, allows the use of spirit duty free, and it is the duty of the licensee to discourage the improper use of the same; the spirit contains certain noxious and harmful ingredients, and is so much higher in alcoholic strength than alcoholic beverages that when swallowed the results are of the most deplorable nature. The man who violates the law of the realm and common humanity by lending himself to the encouragement of the evil deserves all the punishment which the law permits.

Much of what has been said regarding the consumption of methylated spirits in Scotland is applicable to the use of ether in Ireland. Whisky to the Irish is what it is to the Scotch, and if it could be ascertained how much potheen is yearly consumed in Ireland, it is probable that we should find the drink-bill fairly equal in both countries. In one respect, however, Ireland is quite distinct from both England and Scotland, and that is in her consumption of methylated spirit, the total in the fiscal year 1887 being 760 gallons as compared with 1,732,848 gallons, or .085 gallon per head in England, and 448,372 gallons, or '112 gallon per head in Scotland. It is evident from these figures that methylated spirit is not in common use in Ireland; if it were we should not be surprised to hear that it was largely used as a beverage, for certainly it is no worse in taste and effects than the rank and amylic potheen. It is not quite unknown, however, as is shown by the inquest in Dublin held last Saturday, which we report, where it was shown that drinking methylated spirit had had a fatal effect in at least one case. But the national illicit drink of Ireland appears to be ether. In 1877 public attention in this country was first called to the use of ether as a beverage by Mr. Henry N. Draper, whose communication in the matter is referred to in THE CHEMIST AND DRUGGIST, 1877, page 234. At that time ether tippling was very prevalent, and caused terrible havoc among the lower classes-indeed, the habit was so common in some places that priests took to cursing ether in order to get their congregations to shun it. Even then the habit was not a new one, and, although it was supposed to be on the wane, the recent petition to Parliament from the National Church of Ireland, in which the legislature was asked to devise some means to regulate the traffic in ether, shows that the vice has renewed its vigour. It is said that the ether sold is rather weak, and contains a considerable percentage of unaltered spirit, and that this is methylated spirit, which has as evil an effect upon the drinkers as the ether itself. It is possible that the sale of such a mixture can be treated as the sale of methylated spirit for an illicit purpose may be treated; in any case, it is certain that no one more readily than chemists themselves will sympathise with any legislative attempt to prevent the drug shop being degraded into a dishonourable competitor with the licensed dram-shop.

#### MATERIA MEDICA NOTES.

IN our last issue we gave some information Brazilian supplementary to previous remarks regarding Gum Arabic. the gum arabic consigned to this country from Brazil. Replying to inquiries made at the instance of the Kew authorities, Her Majesty's Consul at Paiá states that two kinds of "gum" have appeared in the market there, viz., "Jatuba," the resin of Hymenia Courbaril, a varnish gum well known in this country as Brazilian anime or copal, and angico, a reddish gum said to be obtained from Acacia angico, Mart., and to be soluble in water. It is probable that the latter is the source of the Brazilian gum arabic. Certainly, however, it is not the hymenia resin, which is quite unlike it in appearance, while "angico" is what is commercially known as a water-gum. During the past week we have had an opportunity of testing the gum in regard to its adaptability for pharmaceutic purposes, and also of comparing it with a sample of gum imported as "gum angico," for which we are indebted to Dr. Charles Symes, of Liverpool. Our sample is in large tears, some of them weighing as much as 400 to 800 grains, with smooth or wrinkled surface, translucent, and of a dark amber colour. The gum powders with

difficulty, being not quite dry, and dissolves entirely in vter, 1 part of the gum and 2 of water forming a mucilage as ick as the Pharmacopœial mucilage of acacia. This mucil:e is possessed of excellent emulsifying properties, and is equil in this respect to the official acacia. It is not, however, so adhesive as acacia, but its ready solubility and modate viscosity should make it a welcome addition to the cciectioner's stock of acacia substitutes. Dr. Symes's specing is quite different in appearance and property from our wn sample. It is of a dark red colour, and is only parally soluble in water, swelling up and forming a thick mima with twice its weight of water. In his "Notes on Bra ian Drugs," communicated to the Southampton meeting othe Pharmaceutical Conference, Dr. Symes said that "in the ' Formulario ou Gui Medica ' of Chirnoviz, it is mentiorl as the product of Acacia angico, and is said to be good for lest complaints; the same tree yielding an astringent bark. . . As regards its medicinal properties the only remark vich accompanied it was similar to that of Chirnoviz, "usasnas molestias do peito," " useful in chest complaints." Althigh this gum differs so markedly in appearance from the Bra ian gum arabic, the mucilage of the latter gives very siilar reactions to those which Dr. Symes noted of his gum alico, viz, no reaction with ferric chloride and lead acetaterand precipitates with ammonium oxalate and alcohol, the tter being more abundant with the new gum. It is probabl hat both gums are the product of allied or similar trees, al it would be important to have this point determined, fo the new gum is likely to be a useful one, and if it were be known commercially as gum angico, it is probable that onsignments of the insoluble gum might be made, and scead to disappointment.

Mr. Trimen, the Director of the Ceylon Bc nic Johore Ipecacuanha. Gardens, in his last reports refers to the pro-duction of ipecacuanha in India, and the that as early as 1848, or sixteen years before the first I nts reached India, ipecacuanha was introduced in Ceylorbut that its cultivation in that island did not meet withiny considerable amount of success, and it does not locas if we could ever expect to receive the drug in commoial quantities from Ceylon, especially if, as now seems proble, the Straits Settlements should furnish considerable quanties in the near future, for the use of the root is limited, and ny successful cultivation on a large scale in various courcies would soon bring the price down to a level which vald cease to pay the cultivators. The sample of Johore ipe cuanha which was exposed for sale in Mincing Lane last eek does not differ materially from that which was first impeed. If anything it is more varied, thin and stout roots, posseing the grey and reddish sulfaces, making up the parcel. The roots which we selected for analysis were a fair sample the woody column was somewhat thick. The percentag of emetine we found in the specimen is 1.4, somewhat lower an the specimen examined by Mr. Ransom afforded; but his may be accounted for by the thickness of the woody colan, and the difference is no more than may be expected of wo different samples of root.

For about two months a parcel of coca lives Java from Java have been vainly endeavourir to Coca Leaves. attract a purchaser in Mincing Lane. he leaves were grown at Tjiomas, in the neighbourhod of Buitenzorg, in the north-eastern part of Java, not far om Batavia. Tjiomas is chiefly a coffee-producing district nd has not hitherto been known as one where efforts were log made in the propagation of exotic drugs. This is appar tly the first crop of leaves gathered on the plantation, nd externally it leaves much to be desired. The leaves ve either been badly harvested or seriously damaged on he

1227-

- 11 -

15-21

R.

-Z D 212

112

- 2 -

215

-

---

---

c.

5

3-

-

---saves can take a place in this market, or command ouridence, greater attention should be paid to the harvesting of packing. The parcel contains many miniature leaves, rich are comparatively worthless, and the otion is far the being tempting to buyers, who are mostly guided by the succarance of the article only. The present low price of waine is not encouraging to the Java and East Indian farters, but it is important that they should ascertain the west conditions for cultivation, and the best methods of faring the produce on the market, so that they may with tranage start the industry when opportunity occurs.

South Americans allowed the planters of the Bolivian Old World a good start in the cultivation of Cultivated cinchona before they thought fit to repair (indicate the waste and the ravages in their native wests by rearing the bark-yielding trees in a systematic carner. It is perhaps a tribute to Spanish indifference to meress that a commencement in the cultivation of circhona ras inst made in Bolivia ten years ago by German planters, se of the most successful being Mr. Otto Richter, of wisiamba. Plantations exist at Mapire Longa, Yongas, ed lispire, north and east of La Paz, and in those oralities over siz million plants were first placed in ouldiation. For some time the Bolivian oultivated calisaya, sent o our market in oull form, has been a standing feature in be London bark auctions; but quite recently one of the rinipal cultivators has made a bold attempt to provide us the a cultivated substitute for the so-called flat Bolivian alizya, which is a bark much sought after on the Continent, si in which prices are paid greatly in encess of its mere Trainidal value. A sample of this cultivated flat bark. searly submitted to us by the importers, shows it to have est carefully harvested. It is quite dry and powders adily, leaving little fibrous material. An assay of the bark uved us that it contains 3 per cent. of total alkaloids, a montage considerably under the standard of the British lamacoptaia, but comparing favourably with the cuality f mary samples of natural yellow cinchona. Unfortunately se appearance of the bark under notice is somewhat against . Of course the trees on Mr. Richter's plantation are still Jug, and do not, therefore, yield such stort bark as the Ed cinchenas which provide the ordinary flat bark of comste. The pieces, in fact, are merely, if they may so be ded, fattened quills, one-eighth of an inch in thickness, 13 which in the ordinary process of drying would have tiel up into quills, but were artificially prevented from so ing. The colour is parily a deep crange, parily streaked if spotted with rasty brown, which gives the bark a queer or. Druggists, therefore, who merely appreciate apatazee shun it : but we understand that on the Continent e back is beginning to find a ready sale, and it might : worth the while of our own export druggists to devote me amention to this new variety before it gravitates, too many other drugs are already doing, towards rival TTTTT.

Tribition A notice was published in the London Gazette Sacharin of May 18 as follows :-- "Treasury Chambers. Brewing, May 17, 1838. Prohibition, under Section 5 Brawing, May 17, 1838. Prontottion, under Southand the use in beer of a certain substance. Whereas it appears the satisfaction of the Lords Commissioners of Her sissip's Treasury that the chemical or artificial extract or Since from coal tar, commonly called or known by the me of 'saccharin,' is capable of being used in the manu-

royage. They are unequal in size, of a dull brownish. rest colors, but contain, we find, 0.36 per cent. of coreaine, which is not at all a low percentage. But before the Jara which is not at all a low percentage. But before the Jara Section 5 of the Customs and Liand Berenze Act, 1888 give Section 3 of the Cratoma and Linand Herente Act, 1966 give notice that the use of the said entract of product, community called on known by the name of 'sacharin,' in the mann-facture and preparation for sale of been, is hereity producted until further notice. Dated this 17th day of 1127, 1888 — Herbert Entrace Maxwell, W. H. Waltond. N.S. — 4 penalty of the same Maxwell, W. H. Waltond. N.S. — 4 penalty of NI. is imposed by the said section for any breach -----

> The British The full list of officers of the filty-sighth meet-Association operation at the British Association which is to be Association operation at Bath on Weinesday, September 5, has been arranged. Sir Frederick bran well, F.B.S., member of the Institute of Civil Regimeers, is president-sheet, and will deliver the inargural address. The vice-presidents are the Earl of Cork and Ortery, K.P., Lood Lieutenant of Somerset; the Marguis of Bath the Bishop of Bath and Wells, the Bishop of Clifton, the Mayor of Bath, the Hayor of Bristol, Sir Frederick Acel, the Archisacon of Bath, the Par Learsof Biomedeld Porface, Wicks Forcer Ve W S Wells, the Bishop of Chittan, the Mayor of Bath, the Mayor of Bristol, Sir Frederick Asel, the Mayor of Bath, the Mayor of Bath, the Bath, the Bath, Jeromard Blomefield, Professor Michael Foster, Mr. W. S. Gore-Langton, J.P., D.L., Mr. H. D. Shrine, J.P., D.L., Mr. E. R. Wodehouse, M.P., Otlonel B. P. Larrie, M.P., Mr. Jerom Mursh, J.P., D.L. The bool sectoraries for the meeting will be Mr. W. Pumphray, Mr. J. L. Stothert, M.M.S. Jerom Mursh, J.P., D.L. The bool sectoraries for the meeting will be Mr. W. Pumphray, Mr. J. L. Stothert, M.M.S. C.F., Mr. B. H. Watts; and the local treasurers. Mr. A. Hammond, Mr. J. Murch, and Mr. John Stone. The presidents of the various sections will be the following :--A.--Mathematical and Physical Science: Professor W. J. Uhter, D.S., F.E.S. E., Chemical Science : Professor W. Doyd Datkins, M.A., F.E.S. F.G.S., F.S.A. D.--Bology: W. T. Datkins, M.A., F.E.S., F.G.S. F.-Economic Science and Statistics : The Right Hor. Lord Branwell, F.E.S., F.G.S. G.--Mechanical Science: W. H. Prece, F.E.S., M.Last, C.E. H.--Anthropology: Lieutenant-General Pitt-Elvert, D.C.L., F.E.S., F.G.S., F.S.A. M. Hast, C.E. H.--Anthropology: Lieutenant-General Pitt-Elvert, D.C.L., F.E.S., F.G.S. F.M., a discourse on "The Electrical Transmission of Power," by Professor W. E. Ayroot, F.E.S. ton Monday evening, September 10, at 330 P.M., a discourse on "The Science I. Professor I. G. Bonney, D.S., LLD, F.E.S., F.S.A., F.G.S. ton Menday evening, September 11, at 3 P.M., a discourse on "The Science I. Predessor I. G. Bonney, D.S., LLD, F.E.S., F.S.A., F.G.S. ton Menday, evening, September 11, at 3 P.M., a discourse on "Energy for the fact 250 P.M. Encuritions to places of interest in the neighbour-hood of Bath will be made on the ahermon of Saturday, September 3, and on Thursday, September 13. Bark, Mr. W

Pure Hot Air. In last Tuesday's Times there is an account of Air. Park, Chingford, Esser, by which it is claimed that a current of perfectly pure air at a temperature of 500<sup>3</sup> Fahr, is produced. Mr. Giobs's purpose has been to provide means for drying the tea of Assam by means of the native coal or from waste wood without admitting to the delibration favoured leaves any of the deleterious watch are devined produced by the combination in the ordinary mainer. Ac-cording to the Times reporter, this object has been attained. The only description given of the incluse long by 2 feet wide and 2 feet shirk, built upon the roound. As The arrangement " consists of a cross onamber, 5 feet long by 2 feet wide and 2 feet high, built upon the ground. As one end is a feed chamber and a fuel chamber, and as the other a powerful enhancement of the provident of the between the chamber and the fan are balls plates, splitting plates, a standing bridge with perforations at the back, and a hanging bridge with perforations at the from." It has also been requisite to provide for the exact proportion of air admitted, so as to ensure perfect combustion. This has been the special difficulty, but having samled this and set his fur-nace going, the result is thus described : " Issuing from a fan-month 12 inches in diameter comes rushing a column of hot air, marking on the pyrometer at its exit a steady uniform temperature of 300° Fahr. Not a trace of smoke or fume is The and preparation for sale of beer, and that the use of visible to the eye; not a taint of any kind is percepticle to

the taste or smell. Standing, as we did, in the range of this simoom, with the hot blast full in the face, the heat is, of course, excessive, but the stream of air is perfectly pure. Save in the matter of temperature, it affects neither the eyes, the throat, nor the nostrils. As a proof of this purity some choice tea which had been saturated with hot water was placed in the hot air current, and when re-dried was pronounced by an expert to be wholly free from any imparted taint or taste." It is clear that if this perfect combustion and purification can be really attained by mechanical arrangements, the invention will soon be applied to many other purposes besides tea-drying. It will probably be applied in many chemical processes and it may be found of value in all heating apparatus, as it appears to ensure the utmost economy by extracting from the fuel all the heat which it is capable of yielding.

The Linnean Society, The Linnean Society celebrated its centenary on Thursday last, May 24, a date distinguished in the calendar as the birthday both of Linneaus

and of Queen Victoria. The founder of the Linnean Society and its president for the first forty years of its career was Sir James Edward Smith. Smith was born at Norwich in 1759, and in 1783 came to London to pursue his medical studies. In that year Linnæus's son died at Upsala, and his representatives wrote to Sir Joseph Banks, offering Linnæus's herbarium, zoological collection, books, and manuscripts for 1,000 guineas. Banks was a friend of Smith's and passed the offer on to the latter, who accepted it. Only just in time, however; for, finding the collection was leaving Sweden, the educated people of that country tried to prevent the disgrace, and King Gustavus III, returning at the time from France, sent a vessel to the Sound to intercept the precious cargo, but was too late. Smith took the collection to a house in Chelsca, and, abandoning a medical career, devoted his life to botanical work. On February 26, 1788, he, with six other naturalists, met at the Marlborough Coffee House, Great Marlborough Street, and founded the Linnean Society. His associates were Goodenough, afterwards Bishop of Carlisle, and author of a monograph on British sedges; Thomas Marsham, an eminent entomologist; Dr. Jonas Dryander, a former pupil of Linnæus; Swainson, a zoologist; Beckwith, an entomologist; and James Dickson, a young Scotch gardener devoted to mosses, who had a shop in Covent Garden. At the first general meeting of the Society, held on April 8, 1788, Sir James Smith delivered an address on "The Rise and Progress of Natural Ilistory," and this essay-a very valuable one-was the commencement of the long series of important papers which the Linnean Society has contributed to scientific records and research. A royal charter was granted to the Society in 1802. In 1826 the Zoological Society branched out from the Linnean Society. Sir James Smith died in 1828; his Linnean collection was purchased by the Society for 3,0001., which has acquired besides a magnificent collection of books and art treasures, including a bust of Linnæus by Thorwaldsen. After Sir James Smith its presidents have been Lord Stanley (afterwards Earl of Derby), the Duke of Somerset, Bishop (Stanley) of Norwich, Robert Brown, Thomas Bell, George Bentham, Professor Allman, Sir John Lubbock, and Mr. William Carruthers, the head of the botanical department of the Natural History Museum, who still occupies the chair.

\* \*

Dishonoured Bills. Mr. Hunter, M.P. for North Aberdeen, has brought in a Bill for providing greater facilities

bills. for the recovery of money due upon dishonoured bills of exchange and promissory notes. He proposes that when a bill has been protested for non-acceptance, or a bill or a note has been dishonoured on maturity and protested for non-payment, the holder may within six months present it for registration to a master of the High Court, or with regard to small sums to a registrar of an inferior court. Thereupon it will be entered by that officer on the "Register of protested bills of exchange and promissory notes." But the name of the drawer of the bill or of the indorser of the bill or note is not to be entered on the register until the holder can satisfy the officer that a notice of dishonour has been personally served upon such drawer or indorser or sent in a registered letter to his last known place of abode or of 南平或南北部 部長尚沒京職 國北部物出部的被調

epate 3.220

ais ju 18 mil

成物

通道 18月 18月

siew retif wiei

aisa izte

地方一個 一個 一個

2CT

山山

E E

的现在是一些一些一些

business at least two days before presentment. After r istration the holder is to be entitled to judgment against he persons whose names are signed or indorsed on the bi or note and registered (except where the indorsemer is qualified to be "without recourse") for the amount nd interest specified, and also for the costs incurred in proteing and registering. There are special provisions entitli a judge to order execution to be stayed and an issue t be tried, if he should see fit. The register of protested lls and notes is to be open to inspection on payment of a sall fee.

#### TRADE-MARKS APPLIED FOR.

THE Trade Marks Journal publishes the following notice:--"Any pion who has good grounds for objection to the registration of any othe following marks may, within two months of the date of this journal ivo notice in duplicate at the Patent Office, in the form 'J,' in the sond schedule to the Trade Marks Rules, 1883, of opposition to such regration." The address of the Patent Office is Southampton Build ge, London, W.O.

From the "Trade Marks Journal," May 23, 1888.

- "DR. RÖGER'S PILLS," and other wording, with represeation of castle; for pills, ointment, and vegetile balsam. By Samuel Fry, chemist and druggist, Bislo's Waltham. 68,145.
- Figure of a herald blowing trumpet, and wording, in circ ar label; for artificial teeth. By Jas. Macdold (trading as Macdonald's Free Dentorium), 29 Piccady, Manchester. 68,496.
- "GOLDEN HOP TONIC BITTERS," with directions, &c. on dark background, on a large oblong label; fc a medicine. By G. L. Napier, pharmaceutical cherst, 56 South Street, Exeter. 69,894.
- "COMPOUND GINSENG BITTERS," and other wording in English and Chinese characters, on bordered ob 29 label; for a medicine. By A. S. Watson & Co. (Limit), 106 Fenchurch Street, E.C., Hongkong, and Ma.a. 70,573.
- "WATTAM'S ANTI-FILARIAL MIXTURE," and other word g, with monograph, on oblong label; for a cattle-medice. By F. Wattam, 69 Scotgate, Stamford, Lincolnsie. 71,392.
- "TURNER'S UNIVERSAL HARNESS PRESERVER," and o er wording, with monogram, in oblong label; for a leat rdressing. By Sidney Oxley (trading as E. L. Tu er & Co), Palissy Oil Works, Sheffield. 71,414.
- "CUTINE," with facsimile of applicant's signature; fa skin-medicine. By W. T. Quick, chemist, Lympst c, Devon. 71,846.
- "BULL'S HEAD BRAND," with representation of a base head; for chemical substances (71,895), and for minal and vegetable oils (71,896). By Middleton, Kirkpatak & Barr, 4 Cullum Street, E.C., Newcastle-on-Type, d Glasgow.
- "MELONADE" and "SALINADE," with facsimile of aricant's signature; for non-alcoholic aërated beveras. By Rankin & Borland, 7 King Street, Kilmarnock, N., pharmaceutical chemists. 72,197-8.
- "BAKER'S PURE MEXICAN BLACK LEAD," with represe ation of cowboy on horseback swinging lasso; for b k lead. By Edward Baker & Sons, 135 High Strit, Stratford, E., Birmingham, and Manchester. 72,621.
- Figure of young woman laughing; for perfumery and tot articles. By the Kennedy Company (Limited), patt medicine manufacturers, 112 Southampton Row, V.7. 73,036.
- "MELSTILLA OR HONEY DROP"; for a liquid toilet paration. By George Stocker, chemist, 1 East South hay, Exeter. 73,238.
- Figure of licn rampant, with monogram in circle, on sque label; for cocoa. By the White Lion Cocoa Comp y (Limited), Acton Street, Haggerston, E. 73,544.

#### Foreign and Colonial.

POTASH AND HYDROCHLORIC ACID MANUFACTURE IN GERMANY.—Under the auspices of the united chemical factories at Stassfurt in Germany, works for the manufacture of potash salts are now being erected which will probably be ready on Oct. 1. The union also intends at an early date to commence the manufacture of hydrochloric acid.

THERE are said to be 108 manufacturers of proprietary medicines in New York State, and their total annual production is valued at \$4,339,178, on a capital of \$3,512,430. In the United States there are 563 laboratories exclusively used for proprietary medicines, and having a yearly output valued at \$14,682,492, on a capital of \$10,620,880.

THE DIRECTOR OF THE GOVERNMENT CINCHONA GARDENS in Java, in his report for the last quarter of 1887, states that owing to the greatly increased prices which have recently been obtained for druggists' quills, not only of the Succirubra but also of the Calisaya and Josephiana varieties, he has commenced packing Ledgeriana bark, in so far as this variety yields fine quill bark, into cases. This experiment is especially desirable because, in a few years' time, Calisaya and Josephiana quills will have ceased to be harvested.

ROSES IN THE CAUCASUS.—Plantations of roses on a large scale are to be established in the province of Kutais of the Caucasus, so that there may be an extensive native manufacture of the otto of roses. At the present moment this is largely exported from foreign States, principally Bulgaria and Turkey, into Russia, and it is the object of the Minister of Domains in promoting this enterprise—which, it may be mentioned, is only an expansion of an earlier experiment at Baku—to oust the foreigner and substitute a native industry.

THE SALE OF PATENT MEDICINES IN NEW YORK. — A Bill for prohibiting the sale of patent or secret medicines has been introduced into the Assembly of the State of New York by Mr. J. W. Smith. It provides that no person or firm shall sell any medicinal preparation without filing the formula of the preparation with the State Board of Health, and receiving a license or certificate from that body. It further provides that no so-called secret or proprietary medicine shall be sold, unless there is a printed formula showing the nature of the compound on the bottle, and also the words, "Sale authorised by New York State Board of Health."

COMBINATION OF CANADIAN SOAP-MAKERS.—A combination has been formed among the soap-makers in Canada, with its headquarters at Toronto, and the first act of the convention has been to raise the price of soap  $\frac{1}{2}$ c. per lb. The duty on common brown and yellow soap in Canada is  $l_2^1$ c. per lb., or an average of 33 1–3 per cent. On common soft and liquid soap the duty is 20 per cent.; on Castille soap 2c. per lb., or an average of 42 per cent. This protection enables the Canadian soap-makers to charge their own prices, and when they combine, as has now been done, they can raise the price to nearly the extent of the duty without any danger of foreign competition.

THE AMERICAN DRUG TRADE AND THE LATE MR. ROBBINS.—The members of the American drug trade assembled after the death of the late Mr. D. C. Robbins to pass resolutions of sympathy with the family of the deceased gentleman, and of appreciation of the services rendered by Mr. Robbins to the trade of which he formed part, especially as a member of its special committee on Reform of Custom House Methods, in connection with the repeal by Congress in 1874 of the Moiety Law; in his reports on the subject of bankruptcy, and his efforts to secure the passage by Congress of a new National Bankrupt Law. These resolutions have been engrossed on parchment and sent to Mr. Robbins' relatives in the form of an album covered with sealskin leather and finished inside with moire silk.

THE New York City College of Pharmacy celebrated its fifty-eighth anniversary by a dinner at Delmonico's on April 3. There has heretofore been some difficulty in making satisfactory arrangements for the annual dinner, and for this reason it was omitted last year. The proposed erection of new college buildings has, however, caused an awakening of interest in the college, and the committee found that without personal solicitation a much larger number of subscriptions were received than ever before. Mr. T. J. Macmahan was chairman of a company of two hundred, and after they had done justice to a dinner such as Delmonico's only can serve, a long toast list was gone through. Amongst the guests and speakers were the Hon. Stewart L. Woodford, Professor G. H. F. Markoe, Professor Jos. P. Remington, Hon. Chauncey M. Depew, Dr. J. E. Simmons, President of the Board of Education. Chauncey M. Depew was in his happiest vein, and kept the guests in roars of laughter, and Professor Remington spoke clearly, forcibly, and fluently on the important subject of education which he is so well fitted to handle. The room was decorated with American flags, and a band furnished excellent music throughout the evening. One of the features of the occasion was the singing of "My Country, 'tis of Thee," under the precentorship of Mr. Geo. J. Seabury, who also led, when, at the close, all stood and joined in the familiar strains of "Auld Lang Syne."

THE IMPORTS INTO AND EXPORTS from Spain during the years 1885 and 1886 included, according to official statistics, the following articles of chemical and pharmaceutical interest :---

Imports.

	18	85	1886		
	Kilos.	Pesetas	Kilos.	Pesetas	
Cocoa Chemical and pharma- ceutical products Crystal and glassware Cinnamon Perfumery and ess.oils	7,201,466 48,541,614 6,248,046 375,030 160,788	14,645,960 15,225,026 4,275,945 1,241,166 1,85,304	6,883,471 56,916,090 6,861,028 375,426 170,606	14,023,433 15,851,813 4,860,679 1,174,468 1,364,848	

Exports.

Emports.										
			18	185	1886					
			Kilos.	Pesetas	Kilos.	Pesetas				
Quicksilver Oil (common) Soap (common) Safron Anise Oumin Liquorice root " paste Chocolate	•••	•••	$\begin{array}{c} 1,014,889\\ 42,125,858\\ 5,719,117\\ 42,303\\ 566,965\\ 83,261\\ 2,584,495\\ 591,595\\ 121,118\end{array}$	5,074,445 40,019,565 4,003,382 3,891,8,6 521,608 67,078 775,483 828,233 363,3,34	$541,414 \\15,114,012 \\6,6^{\circ} 4,425 \\31,378 \\6^{\circ} 8,633 \\83,622 \\3729,024 \\419,204 \\162,462$	2,707.070 14 358,312 4,637.098 2,886,776 633,542 63.553 932,256 565,925 457,386				

BARILLA IN INDIA .- The manufacture of barilla has latterly been the subject of some attention on the part of the Government of Madras. In the Punjaub an alkali resembling barilla is obtained from the saline soils, which contain from 30 to 50 per cent. of carbonate of soda. This is used in India for all purposes, including washing and bangle-making. There are certain plants in Southern India from which barilla could probably be obtained, more especially Salicornia brachiata, Suæda fruticosa, and Suæda nudiflora, which, according to Surgeon-General Bidie, grow along the coast of the Presidency. In 1885 an experiment was made in the manufacture of the barilla from certain plants, but the resultant salt was the chloride, not the carbonate, of soda. It is possible therefore that the plants were not the proper kind. Further inquiry was made by the Government as to the possibility of getting a supply of barilla plants, and these being unsatisfactory the Government now wish to know "whether fairly pure carbonate of soda is obtained in the Presidency from the saline soils known as dhobies' earth; and whether such carbonate of soda can be manufactured at a price which will allow of its competition with that obtained by the chemical treatment of common salt." This sounds like going back a century or so.

"W. R. DUSTIN has been studying the formation of alkaloids in plants." That is how an American paper puts it.

RATS do not like their holes to be stuffed with newspaper pulp dipped in a solution of oxalic acid and forced into the holes when wet. Where that is the case they make some other dwelling a home.

nd stebrarb s

e exepted

it's prieming

meding, bat

it about eig

IIII)-Sta

- 6. I.M. W.

1111. to 3e.

rea for matin

na slight fau

alpil 19 being

1,185-6, 4,44

: p Imerica, a

equitat the

scibe periods 1914, 47,207

His includes

the Lorende

ne il is possib

nief steaor,

n)-There is

t Mijare o

tippined at

untria, in Spr

sto a dis an

rien, ud in 1

Expert to this

rell, but the w

cui de prov

the upplected

ti bire qua

capito Spi califice have

"" Daiptain

zam in th

sy to form a

is list rears

el atels, 20

Stational .

AL : Jane - J

2. M. C.:

in-spil, 197

Singular, 181

- 2 211. for

iel.; Septe

splerber.

E IN T

Cologady .

12, 200 71.

C ( Lia Vi

#### Trade Report.

Notice to Retail Buyers: — It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

#### 42 CANNON STREET, E.C., May 24.

THERE has been very little business done this week, the Whitsun holidays having contributed to still further depress a market already suffering from extreme languor, nor is there much prospect of a better state of things for the remainder of the month, as the Epsom races will cause a break in next week's business. In the chemical market a better feeling, brought about by the approach of summer weather, exists for citric acid, but tartaric and oxalic acids are, if anything, rather weaker. Quinine is practically without alteration, although the improved tone manifested at to-day's cinchona auctions, the only public sales of interest to the drug trade held this week, causes an anticipation of improvement in some quarters. Among heavy chemicals, soda crystals and sulphate of ammonia are also dearer, but sugar of lead is worth less money. In drugs and drysalteries there are very few alterations. Insect flowers, chamomiles, and cod-liver oil keep firm, several spices are dearer, shellac and gambier have also slightly risen in value, and turpentine is also quoted higher. But, on the other hand, opium is very depressed, and glycerine and golden seal root are weaker.

ACIDS.—*Citric* has improved steadily, and closes firm with a rising tendency, 1s.  $7\frac{3}{4}d$ , having been paid on the spot, and 1s. 8d, being asked both for spot and forward. Lemon-juice is reported much dearer in Sicily. *Oxalic* neglected at 3d. to  $3\frac{1}{4}d$ . per lb. *Tartaric* stagnant; English, 1s. 6d. to 1s.  $6\frac{1}{4}d$ .; foreign, 1s.  $5\frac{3}{4}d$ , to 1s.  $5\frac{7}{8}d$ . per lb.

AMMONIA SALTS.— Carbonate very depressed at 4d. per lb. Salammoniac quiet; firsts at 34s.; seconds at 32s. per cwt. Sulphate firmer with a rising tendency. 111. 17s. 6d. is today quoted for Beckton sulphate. The continental markets do not in any way respond to the present quotations here, and there is not much prospect of a very large demand for the summer and autumn months. For the past agricultural season, the shipments to the Continent have not come up to the figures of previous years, there being a deficit of 3,000 tons; which might, indeed, have been even greater, in view of the large consumption of nitrate of soda.

CAMPHOR.—*Crude* remains very firm, although no higher price than 77s. 6d. per cwt. for Japan on the spot is yet reported to have been paid. China camphor is quoted a little cheaper, but it is only nominally in the market. The reports from China speak of a rising market and a very good demand.

CASCARA SAGRADA still held at 60s. per cwt. on the spot.

CHAMOMILES unchanged at 6l, 5s, for best Belgian flowers of the last crop. The stock is now a very small one.

CHINA ROOT is offering up to 18s. per cwt. for the best quality.

CINCHONA.—The fortnightly auctions were held to-day instead of on Tuesday, and passed off comparatively favourable for holders, who were able to dispose of nearly the whole of the supply catalogued, with good competition at full to slightly dearer prices, the unit being stated to have averaged fully  $2\frac{1}{4}d$ . The principal buyers were the agents for American and German manufacturers. Altogether 3,774 packages were catalogued, composed of 1,632 Ceylon, 706 Indian, 74 Java, 8 Atrican West Coast, and 1,354 South American bark. Of the Ceylon bark very little was bought in, and a much larger proportion than usual of American bark was sold. The following prices were obtained :—

CEYLON AND EAST INDIA CINCHONA: Succirubra—branch, thin to good,  $1\frac{1}{4}d$ . to  $2\frac{1}{2}d$ .; chips, ordinary mixed with

branch to fine bright strong, 2d. to  $6\frac{1}{2}d$ .; root,  $2\frac{1}{2}d$ . to d.; druggists' quills, rather weak,  $7\frac{1}{2}d$ .; renewed, dull to fai 3d. to  $8\frac{1}{2}d$ . Officinalis—chips, weak and mixed with brach,  $2\frac{1}{2}d$ . to 4d.; stem chips,  $5\frac{1}{2}d$ . to 6d.; common to good savings, 3d. to 6d.; root,  $7\frac{1}{2}d$ . to 11d.; druggists' quill, d.; renewed dull to fine strong bold,  $4\frac{1}{2}d$ . to 1s. 3d. per lb. VA CINCHONA.—Ledgeriana—chips, small and dusty mixed ith quill, part damaged,  $4\frac{1}{2}d$ . to 6d.; fine bold, 1s.; fine ot, 1s. 2d. per lb. AFRICAN CINCHONA.—Eight bales, impled via Lisbon, of nondescript character, together 1,450 s., sold at 3d. to 6d. Of SOUTH AMERICAN CINCHONA n rly one half was sold, mostly Cuprca of old import, at 2d to 3d.; quill, at  $8\frac{1}{2}d$ . to 1s. 2d. per lb.

CREAM OF TARTAR steady but unchanged at 121s. 6 dper ewt. for first, and 118s. per cwt. for second quality.

GALANGAL ROOT.—The nearest quotation is 7s. 3c to 7s. 6d. per cwt.

GAMBIER.—Block made a further advance just before he holidays, when 23s. per cwt., reweight, was paid on the ot, and 22s. 6d. for April-May steamer shipment. Since the we have not heard of further business.

GLYCERINE weaker; 68*l*. being asked for double disted, s.g. 1,260, by the German makers, but perhaps a slight prcession might be made for quantities.

GOLDEN SEAL ROOT is reported cheaper from Amera, 2s. 9d. being the price now quoted.

GUM ARABIC very quiet, with little inquiry except for he best varieties, which remain firm. The usual public les have not been held this week, nor do we hear of any printe business worth recording. In Liverpool also the mark is very quiet, and buyers are rather indisposed to pay the ples demanded by holders. Some arrivals of Alexandrian un have taken place at Liverpool, including a small parc of Arabic sorts. The sales of Brazilian gum are comparately small, although there continues to be a fair inquiry for his description; 55s. to 57s. 6d. has been paid for fair medim part blocky, and 60s. to 65s per cwt. for good coloured ee gum. A moderate quantity of Egyptian Amrad has also en sold at 85s. per cwt. In Bordeaux Senegal gum continu to command excessively high prices, a parcel of 200 gs recently imported having lately realised as much as 71. 0s. But the time is now approaching when consistper cwt. able arrivals from Senegambia will be due, and when t se arrive it is not expected that holders will be able to main in their quotations. The value (in Egpytian £, worth 20s)d. sterling) of the gum exports from Suakin since 1879 ias follows :-

1879 1830 1881 1882 1883 1884 1885 188 207,684 160,265 158,127 116,435 56,609 2,414 2 1,50

INSECT FLOWERS.—The stock at Trieste, which as 82,900 kilos. at the end of January, has successively beer educed to 48,400 kilos. at the end of February, 45,100 Fos. at the end of March, and 31,400 kilos. at the end of A il, while since that time large deliveries have been made, id there are not now over 20,000 kilos. left in stock, which is last until the new flowers arrive. For the latter, hig er prices are expected to rule. Meanwhile we quote en flowers at 176s., half open at 182s., and closed at 198s er evet. c.i.f. terms.

IODINE steady at 9d. per oz. for crude, Resumblimed 13s. d., iodide of potassium 11s. 3d. per lb.

IPECACUANHA.—We have received a further consignant of 20 serons per Condor, via Antwerp.

NUX VOMICA.—Another parcel of 500 bags has just one to hand per *City of Agra* from Calcutta.

OIL (CASTOR).—Very little business is reported. Cak ta firsts steady at 4d. per lb.; fair Madras seconds sold at d.

OIL (COCOANUT).—There is little business to report our ma:ket, which remains flat, while holders would be epared to accept lower prices, especially for forward delivy. For *Ceylon* oil 23*l*. 10*s*. to 23*l*. 15*s*. is asked spot, but or arrival 22*l*. to 22*l*. 5*s*. c.i.f. would buy. *Cockin* oil is glected at 27*l*. to 27*l*. 5*s*. on the spot, and 25*l*. 10*s*. forw d. *Mauritius* nominal at 25*l*.

OIL (COD-LIVER) remains firmer, and last week's quota in

still holds good, although slightly lower prices have in some instances been accepted. But there is very little business doing, both sides preferring to wait. The Finnmarken fishing is still proceeding, but has only yielded some 400 barrels oil so far, against about eight times that quantity last year.

OILS (ESSENTIAL).—Star anise remains quiet at 6s. per lb. nominally, but 5s. 11d. would buy, no doubt. Cassia neglected at 2s. 11d. to 3s. per lb. Citronella neglected at  $\frac{1}{6d}$ , to  $\frac{1}{6d}$ , per oz. for native oil. The exports from Ceylon nave shown a slight falling off lately, the figures from October 1 to April 19 being: 1887-8, 4,871,746 oz.; 1886-7, 4,916,928 oz.; 1885-6, 4,444,593 oz. Of the present season's exports, 2,766,578 oz. have gone to the United Kingdom, 2,068,736 oz. to America, and the rest to Australia, India, &c. Cinnamon oil, quiet at the previous quotations. The exports from Ceylon in the periods between October 1 and April 19 have been, 1887-8, 47,207 oz.; 1886-7, 43,447 oz.; 1885-6, 82,159 oz. This includes a large proportion of common grades and leaf oil. Lemon is reported by some agents to be dearer in Italy. Lavender very firm, and by no means plentiful. Otto of rose firm at unchanged prices. The new crop, so far as it is possible to say anything now, promises well. Peppermint steady, 10s. 9d. per lb. asked for American HGH.

OIL (OLIVE),-There is nothing new to report as regards our maiket. Mogadore oil, which is still in rather small supply, remains quoted at 331., Sicilian at 341., and Spanish nominally at 37l. In Liverpool only a small business is doing, mostly in inferior and medium oils. As regards the producing countries, in Spain excellent prospects are reported for the new crop, but no reduction has taken place in the high prices required for available oil, and Spain is in consequence now rather an importing than an exporting market. From Morocco no oils are at present being shipped to the United Kingdom, and in Tunis prices are generally too high to admit of export to this country. As regards Greece and the Levant, in Corfu the olive-trees are blossoming exceptionally well, but the weather is dry and hot. In Candia the prospects of the growing crop are very favourable, but there is not much old oil left in stock. In Naples the market is rather neglected. New Gioja oils have arrived on the market in large quantities, but find a pretty good sale, and even for export to Spain purchases have been made. In Gallipoli quotations have failen from the relatively high level which they maintained some time ago. The prospects of the coming crop in that district are excellent, but it is yet too early to form a definite opinion. In the Gioja district, after last year's crop, the bulk of which has only been gathered lately, no crop worth mentioning is to be expected.

OILS (VARIOUS).—The following are the current quotations for some of the principal oils :— Cottonsecd oil, steady ; crude spot, 181. 12s. 6d.; refined, 201. 15s. Hull crude, 171. 7s. 6d., refined spot, 201.; June-August, 201. 15s.; November-April, 181. 7s. 6d. to 181. 10s. Linsced oil, firm; spot, according to position and packing, 181. 12s. 6d. to 181. 15s.; month, 181. 15s. to 181. 17s. 6d.; June-August, September-December, and January-April, 191. 2s. 6d. to 191. 5s.; Hull spot, 181. 12s. 6d. to 181. 15s.; month, 181. 15s.; June-August, 191.; September-December, 181. 17s. 6d. to 191.; January, 191. 5s. Palm oil dull, at 211. for fine Lagos. Petroleum, American spot,  $5\frac{7}{16}d$ .; September-December,  $5\frac{1}{3}d$ .; Russian spot,  $5\frac{1}{3}d$ . to  $5\frac{1}{16}d$ .; September-December,  $5\frac{1}{3}d$ . Rape oil, brown spot, 231.; June-August, 221. 10s. to 221. 15s.; September-December, 221. 15s. Turpentine dearer: American spirit, spot and June-August, 30s. 3d.; September-December, 27s. per cwt.

OPIUM.—In Smyrna prices have again given way a little, and the market, according to mail reports dated May 11, closed weak with business at the equivalent of  $\mathcal{E}_s$ . 10*d*. per lb. ci.f. for new *Karahissar* with visite, 7*s*. 6*d*. per lb for old tale quale *Karahissar*, and 7*s*. 11*d*. per lb. for old tale quale *Ycrli*. In the interior of Asia Minor the crop prospects remain excellent, and the following is a report from Saloniea, dated May 8:—" So far not a week has passed without rain; in the country the weather could not possibly be more favourable, and the opium fields present a magnificent aspect. In some districts nearest to Salonica the plants have already commenced flowering, and in about a fortnight gathering will commence everywhere, and will continue until the second half of June. The crop may now be said to be secure, and, unless continued rain during the harvesting reduces the yield, from 750 to 800 cases will be gathered. The first arrivals will take place about June 15."

POTASH SALTS.—*Bichromate* remains firm at  $4\frac{1}{2}d$ . per lb. *Chlorate* a shade less steady, but  $5\frac{5}{2}d$ . per lb. is still the nearest price. *Prussiate* remains quiet at  $6\frac{5}{2}d$ . for foreign yellow, and at 1s. 7d. for red.

QUICKSILVER.— On Friday last the importers fixed 7*l*. 5*s*. as their price, and kept to that figure until to-day, when they lowered it to 7*l*. A considerable business, at generally firmer rates, has been done, mostly from second-hands, and the market closes firm.

QUININE SALTS.—Very little business has been done in *Quinine sulphates* since last week, and there have been sellers all along at 1s. 5d. per lb., and perhaps less would have been accepted, though some say that nothing could be bought at 1s.  $4\frac{1}{2}d$ . per oz. Owing to the firmness of the raw material at the auctions the market closes with a better tendency, but 1s. 5d. per oz. would still be accepted for German bulk. A econsiderable quantity of *Cinchonidine* will be offered for sale at the next drug auctions.

SHELLAC closes firm and slightly dearer, 41s. 6d. per cwt. c.i.f. having been paid for standard *Second orange* TN, June-August shipment, and 32s. 6d. c.i.f. for *Garnet* lac AC near at hand.

SODA SALTS.—Ash, unchanged, at  $1\frac{1}{8}d$ . per degree landed. Bicarbonatc also steady, at 51.5s. per ton from the warehouse. Caustic soda is less firm, and holders have been offering more freely, although nominally cream is still quoted at 61. 15s., and white 60 to 70 per cent. at 7l. to 7l. 5s. per ton. Crystals very firm and dearer since our last quotation; 46s. 6d. per cwt. must now be paid here ex ship, and 40s, per cwt. on the Tyne, while for June delivery 41s. would be paid. *Nitrate*, firmer again, at 9s. 6d. to 10s. 6d. per cwt. according to quality. The consumption of Soda nitrate in Europe during the first four months of this year has been about 100,000 tons in excess of that of previous eorresponding periods, and it is expected that the position of stocks in Europe at the end of June will prove that the unprecedented shipments made during 1887 have been no more than sufficient for the requirements of the market. The shipments made from the West Coast to Europe since January 1 have been fully up to the average of previous years, and as there does not appear to be anything to diseourage the producers, it is probable that during the next eight or nine months the shipments to Europe will be conducted on the same liberal scale as in 1887.

TEA .- The market scarcely opened after the holidays till Thursday, a little business only being done by private contract on Wednesday, when a tew lines of N.S. 1888-9 Newmakes were placed on the market out of two eargoes just arrived. The quality is better than previous lots shown, and leaf is good, but, generally speaking, the liquor is not striking, and there have been as yet no really fine teas. On Thursday the usual Congou and green sale was held with between 5,000 and 6,000 boxes new Newmakes. Congous in half chests sold at about previous rates. Moning,  $4\frac{1}{4}d$ . to  $4\frac{1}{3}d$ . Kaisow and Saryune,  $3\frac{5}{6}d$ . to 4d. Packling, 4d. to  $4\frac{1}{4}d$ . Green teas selling flatly, the small demand existing being chiefly for export. The first steamer (the *Moyune*), contain-ing New Monings, sailed from Hankow on May 20, and the Glengy le will follow shortly, the Moyune being due at the end of June, but buying by English buyers in Hankow has been very short, and telegrams state that before the Moyune eould fill up freights had fallen to the very low figure of 2l. a ton for the first steamer. No news has yet arrived of the cpening of the Kaisow market, but a few lots of New S. Capers may be looked for about June 11. The Assam and Ceylon market has been practically closed, one small sale having been held, and prices realised being about as before. It is, however, not unlikely that next week's sales may see rather firmer rates, as the cessation of sales for nearly a foitnight must tend to stiengthen the market after the unnaturally sudden collapse of the last month.

WAX (JAPAN).—An advance is reported to have taken place in the East, but our market has not responded to any extent. The latest seller's quotation for good pale squares was 49s. to 50s per cwt.

tic 1172 and

A d miner

THE WILLS C.

mitteripe, at

that it can

ent of Cert

the paris

indigener

Thin the

.cm, ud ince

the day

tim is not

s lie botant

din trade and

sti with the

ende plan

3 di bitamen.

operating for to breeing th

Evil each of

its to obtain

in the sitem

white different

spe, is main)

la bea from

ille plant l

speed Need

ipis Wardi

pices only s

Re-This r leafor many p

in life, and a

Stat obtained

mit mil be fo

i So long as

a the satisfant

izined very

aretts have

En tar as 1

and be report

licelt of m

alore been p alore been p alore for the p alore. The itigan of its

isth it most

title caltiv

i parts in err

Cirod ashe

The leaves.

atin is abor

to the )

-In Piper ni

TO SUR OF DO

23 1201085

a su mach gru

the di

122 LOCI 800

e states of

at sites to a

Carthere I

is our of pe

#### THE AMERICAN MARKETS.

#### NEW YORK, May 11.

THE condition of this market has continued almost un-changed from the date of last report with within the changed from the date of last report until within the present week, during which a firmer feeling has prevailed in a few articles and a better tone has been created in the market generally. But no speculative disposition, only a regular consumptive demand may be looked for, as the agitation of the tariff reduction entirely precludes the former; besides this is the year of the Presidential election, and during such periods business is always more or less neglected for matters political.

The prices sterling (in parentheses) are what the different atticles would cost delivered in London, all market allowances, discounts, &c., being taken into account. Importers can therefore see at a glance the course of this market compared with their own.

ACID (CITRIC) continues in good demand, and the American manufacturers are still very short, while they have until recently been taking orders for June delivery at 50c. (2s. 1d.), and only at present delivering on contracts previously made. Any acid wanted for present use by those having no contracts must be obtained in the open market, and 54c. (2s. 3d.) is asked for such lots (10c. duty) for either American or foreign, while there is every evidence of higher prices prevailing for the season, which is just at hand. It is doubtful whether our home manufacturers can supply the demand for that season, and thereby keep the price down, or rather keep out the foreign stuff, for that is their real object.

ALOES.—Cape, 5c.  $(2\frac{1}{2}d.$  per lb.); Socotrine, 20c. to 40c. (10*d*, to 1*s*, 8*d*.), according to quality and dryness; *Barbadoes*, 18c. to 20c. (9*d*. to 10*d*.) per lb.; and *Curaçao*, 4c. (2d.).

BALSAM FIR.— Canadian still keeps high, at \$3 per gallon, (12s. 6d.); and Oregon, a similar product of American origin, at \$1.10 (4s. 7d.) per gallon.

BALSAMS .- Peruvian, \$1.10 (4s. 7d.) per lb. in iron cans of 20 lbs. to 100 lbs. each net; Copaiba, 50c. to 60c. per lb. (2s. 1d. to 2s. 6d.), in good supply and fair demand.

BALSAM TOLU, 30c. (1s. 3d.) for bright, clean and transparent.

BROMIDE OF POTASSIUM, no change, at 33c. (1s. 42d.) per lb. in lots of 1,000 lhs. and upwards.

BUCHU.—Short prime green leaves  $6\frac{1}{2}c$ .  $(3\frac{1}{4}d)$ , and 18c. (9d.) for good green long.

CANTHARIDES. — Chinese, 45c. (1s.  $10\frac{1}{2}d$ .), and prime Russian, \$1.40 (5s. 10d.) per lb.

CARDAMOMS.—Mangalore, 65c. to 90c. (2s.  $9\frac{1}{2}d$ . to 3s. 9d.) per lb.; Malabors, 60c. to 80c. (2s. 6d. to 3s. 4d.); and Aleppy, 40c. to 60c. (1s. 8d. to 2s. 6d).

CUBEBS.—Prime true stemless sifted, \$1.45 (6s.) per lb. and ordinary stemmy unsifted, \$125 (5s.  $2\frac{1}{2}d$ .). Some lots of spurious berries have again recently been rejected here by the Customs; several instances of rejections of such goods have occurred here of late, as the appraisers are extremely careful not to permit any but genuine cubebs to be brought into the country.

GOLDEN SEAL ROOT, which had attained an unsually high figure, has declined somewhat, being more freely offered and obtainable at 70c. (2s. 11d), which is still much above its usual price.

GLYCERINE has declined lately about  $1\frac{1}{2}c$ . per lb, and C. P. white is selling at  $18\frac{1}{2}$ c.  $(9\frac{1}{4}d)$  in drums, inclusive, barrels being quoted at the same price, in lots of not less than 1,000 lbs, and cans at 19c.  $(9\frac{1}{2}d.)$ , packages included, in 500 lb. lots.

INSECT POWDER.—The demand is considerable and steady, the height of the season having now arrived. The price is firm at 50c. (2s 1d.) for reliable brands of either domestic or forcign grinding.

OIL OF PEPPERMINT is steady at previous prices: Western, \$1.75 in tins (7s.  $3\frac{1}{2}d$ .); New York State, known as Wayne Co. \$2 (8s. 4d.); H. G. H., in bottles, \$2.35 (9s.  $9\frac{1}{2}d$ ).

OIL OF WINTERGREEN has resumed about the nominal figure at which it stood prior to the blizzard and subsequent scarcity. It is now in good supply, and selling at \$1.75 $(7s, 3\frac{1}{2}d.).$ 

OPIUM remains about the same as last reported, at'3, equivalent to \$2 without duty (8s. 4d) for single cases, nd in lots of 5 or 10 cases  $12\frac{1}{2}$  c., or about  $6\frac{1}{4}d$ , less would by although for a few days a little more firmness was createdy cable advices of an advance abroad, and the larger holers were not disposed to accept less than what had been ared for single cases just previously. There was, however, ne weak party who would still accept former prices, and is has had the effect of preventing any renewed firmness inhe article.

QUICKSILVER is decidedly lower, and offering at 50cto 52c. (2s. 1d. to 2s 2d.), according to quality.

QUININE (FOREIGN).-This rise took place immedially upon the receipt of advices from abroad of increased price of 20 per cent. at the London bark sales; holders here advand their prices to 35 and 36 cents (1s.  $5\frac{1}{2}d$ . to 1s. 6d.), while he American manufacturers had but a few days before (the st of the month) reduced their price 3c. per oz.  $(l_2^{\perp}d)$  to per present figure of 50c. (2s. 1d).

SAFFRON (AMERICAN) still remains at 14c. (7d.).

SENEGA, 42c. to 45c. (1s. 9d. to 1s.  $10\frac{1}{2}d$ .), according to quality.

TONQUIN BEANS.—Pará have advanced to 45c. (1s. 10).

THE ACCLIMATISATION OF DRUGS IN CEYLON

THE report of the Director of the Royal Botanic Gard's 1 in Ceylon contains several references to the effects which are being made for the propagation of exotic medicial plants in the gardens, from which we select the following -

CINCHONA .- Much of the bark shipped from the island 1887 can barely have paid the expense of production, and may be confidently expected that the export from Ceyn will now rapidly fall. The history of this industry in Ceyn has fully shown the truth of what was so strongly insisd upon from the first by those who looked ahead, that qual, not quantity, was the object to be aimed at by the grov This more far-seeing policy has been followed in Java, :1 we may now soon expect to see large supplies of rich bx coming from that country. Some seed of Remejia ped-culata, one of the "Cuprea" barks, was received from Ky in April, 1887, but none of it term nated.

COCA.—Our numerous old bushes in the Pérádeniya Garda yielded this year a large crop of seed, which was advertist for sale, and some 25,000 seeds disposed of to over ce hundred purchasers. As this seems to show some reneral of interest in the plant, a few further notes upon it may here given. The plant was originally received in 1870 fro Kew, and all the plants now in the colony have been derive from the Pérádeniya stock. This matter of origin is i portant, as more than one variety is in cultivation. I. Thiselton Dyer states that there is some doubt as to t source of the Kew plant, but it is thought likely that it m have been obtained from M. Triana, the well-known Soul American botanist, in which case it was collected in Ne Grenada and not in Peru or Bolivia. The specimens in t Kew herbarium, collected on the Rio Magdalena, are pl cisely like the cultivated plant at Kew. So long back 1876 it was obvious that it differed somewhat in the form its leaves from the typical E. coca, and a figure was add of the usual pointed form of leaf for comparison. It probable that several forms are cultivated in South Americ and perhaps some may be licher in alkaloid than othe Two varieties are now being grown in Java, and one them has yielded on analysis a percentage of 0.87 cocaine, which is considerably higher than that of the sample sent home from the Pérádeniya Garden. There a now being sent home for analysis some other more careful prepared samples of the Ceylon variety. The existence different varieties of this species may probab y explain th fact that though a mountain plant in the Andes, it is n found to grow in our higher elevations. Experience i Ceylon shows that it does well only at levels below about 2,500 feet, and that as a rule some shade is necessary.

CUBEBS .- The high price at which this drug has bee lately selling in the home market has led to several inquirie as to the possibility of its cultivation in Ceylon and th means to obtain plants. The cultivation of cubebs as commercial pursuit appears to be carried on at present onl

=2

in certain parts of Java and Sumatra, where the business is almost entirely in the hands of the natives. No details are known of the mode of cultivation, which, however, seems to be merely that of ordinary pepper, the stems being allowed to climb over the trunks of trees, and the fuits plucked before they are quite ripe, and carefully dried. There is no reason to doubt that it could be easily carried on in the reason to doubt that it could be easily carried on in the moist low-country of Ceylon, and it is perhaps remarkable that it has not been practised by our native population who grow other kinds of pepper so largely. It is, however, by 10 means easy to obtain the true P, cubeba, which is a plant very little known, and indeed imperfectly understood even by botanists. Several other species approach it very closely, and even at Kew the cultivated plant, hitherto believed to be P. cubeba, has since been determined to be another species; and there is nothing now there to represent the cubeb plant. The botany of the subject is still greatly involved, and in trade also numerous spurious and false cubebs are met with, the fruits of allied species. One of the difficulties in the way of commencing the cultivation of cubebs is due to the plant being diccious, with the male and female flowers borne on different plants. On several occasions I have succeeded in getting plants for the Gardens, and at present I have some fifteen young plants at Henaratgoda, obtained by propagating from a single one from Singapore. Unhappily, on flowering this proved to be a male, as has been the case with each of the other plants I have been able at different times to obtain. Either sex is, of course, useless alone, and I am now attempting to get ripe seed from Java, but it appears to be difficult to obtain this from the natives.

GAMBIER.—This is another great cultivation at Singapore, and, like pepper, is mainly in the hands of the Chinese. Between 25,000 and 30,000 tons of this tanning material are annually exported thence, much of it of a very inferior quality. It has been found most difficult to obtain living specimens of the plant (*Unearia gambier*) from which this extract is prepared. Seed appears very difficult to get, as the climbing stems are all cut before flowering, but in March over 200 cuttings in Wardian cases were received. Of these, one sickly specimen only survives.

IPECACUANHA .- This very valuable drug has been in cultivation here for many years. The gardens first received it in 1848 from Kew, and additional consignments from the same source were obtained in 1866 and 1871. Many remarks on its cultivation will be found in Dr. Thwaites' reports from 1872 to 1878. So long as it was grown in the Pérádeniya Garden very little satisfactory growth could be obtained, and the plants remained very small, but in the Henaratgoda Garden the results have been somewhat better. Still not much progress, so far as the production of the roots them-selves went, could be reported. During the past year (1887), however, as a result of more care in the preparation of the soil and choice of situation for the beds, some roots of much finer growth have been produced, and there is no occasion to despair even yet of producing a good sample of this important medicine. The plant is propagated with extreme facility by division of its roots, but from its small size and very slow growth it must always be the subject rather of garden than estate cultivation. Mr. Cantley saw in Johore thousands of plants in excellent health grown in rich vegetable soil with wood ashes, and well protected from the sun and wind by palm leaves. By order of the Madras Government a plantation is about to be formed in the teak plantation at Nilambur, on the Malabar coast.

**PEPPER.**—The *Piper nigrum* plants received from Singapore two years ago are now making good growth, and appear to be of a more vigorous and better variety than any of the native ones so much grown for local sale. It is remarkable that the cultivation of this product on a large scale for export has never been seriously taken up in Ceylon.

TEA.—The success of tea-growing in Ceylon is leading many other countries to attempt its cultivation, and we have lately sent a supply of seed to New Zealand, where the experiment is being conducted by the Chief Conservator of Forests, on both the east and west coasts of the Northern Island. The plant is doubtless capable of culture under a very wide range of climatic conditions, but the success of tea-cultivation anywhere as a commercial speculation depends entirely on the cost of production, and mainly on the rate of wages for labour.

#### INDIAN CINCHONA STATISTICS.

THE Statistical Bureau of the Treasury Department at Washington has collated the following information regarding the extent and yield of the cinchona plantations in British India. The figures have been supplied by the United States consuls:-

			Be	engal Plant	tations.	
Year endi Match 31			C	Under Unltivation Acres	Permanently Planted Plants	Yield in lbs.
1382			••	199	325,103	25,000
1883	••	••	••	331	614,235	24,000*
1884		••		680	1.116,778	4,800†
1885				963	1,705,181	— ‡
1886		••		1,200	1,813,740	18,103 ş
			M	ysore Plant	tations.	
1882	••			15	12,125	1,354
1883	••	••		23	22,919	3,660
1884	••	•••		23	22,949	3,472
1885				23	22,949	3,472
1886	••	••	••	<b>3</b> 25¶	143,279¶	11,434¶
			С	oorg Plante	ations.	
1882		••		771	617,156	- ‡
1883			••	1,086	868,725	+·
1884		••	••	1,868	1,494,385	‡
1885	••	••	••	2,012	1,610,199	- *
1886	••		••	1,800	1,440,152	7,950
		Nil	giri	(Madras)	Plantations.	
1885				3,976**	8,245,722**	243,300
1886	••	••		3,878**	6,871,876**	230,992

Statement showing the out-turn and disposal of cinchona bark at the Government plantations in India during each of the years ending March 31, from 1882 to 1886:—

Thandowngyee	Plante	ation	(Burma)	).
	1000	1007	1001	1005

Bark collected	1882 1bs. 	1833 1bs. 507	1884 lbs.	1885 1bs.	1883 1bs.
	Nilqiri Pi		28.		
Balauee in store April 1	6,997	5,301	2,837	92,526	125,663
Collected during year	242,052	129,713	183,765	116,017	113,366
Total	249,049	135,017	186,63 <b>2</b>	208,543	239,029
Exported to England	232,467	62,518	30,510	_	—
Issued to quinologist, med					
departments, and priv individuals	<b>11,27</b> 8	69,612	63,61 <b>6</b>	82,880	113,940
Total	243,745	132,130	94,123	82,880	113,940
Balance in store March 3	1 5,304	2,887	92,526	125,663	125,089
	Sikkim Pl	antation	us.		
Balauce in store April 1	277,802	198,888	163,808	149,548	209,723
Bark collected	341,570	396,980	306,160	339,201	205,410
Total	619,372	595,868	469,968	488,749	415,133
Sold locally to medical	de-				
partment	804	500	100	1,266	100
Issued to quinologist	for 7/7 200	790 760	700 700	277,760	150 640
manufacture of febrifu Sent to London for sale	ge 347,200 72,480	389,760 41,800	320,320 —		159,640 —
Total.	420,484	432,060	320,420	279,026	159,740
Balanee in store March 3	1 198,888	163,808	149,548	209,723	255,393

\* Product of 316,435 plauts only, the remainder being young plants.

1 Product of 205,547 plants only, the remainder being young plants.

‡ No information available.

§ Yield of two plantations out of four.

Three hundred and three acres were newly brought under cultivation in the Kadur district. The number of plants thereon is 120,330, which, being young, yielded no out-turn during the year.

|| Calculated at 800 plants to the acre.

\*\* These totals represent only the reported figures. The collector of the district states that the unreported area is probably quite as large.



702

#### Memoranda for Correspondents.

Always send your proper name and address we do not publishine which 9:22 2012 To

Weile on one side of the paper only thereis early thank depote a segurate thee of pager to each query (f you are more than one, or (f you are writing about sther motion) as the same time.

If you send up newspapers, please care what you with us to read.

Ask us anything of gharmaceutical interests we shall do our less is reply.

Before priving for formula consult the last colume, if you have H.

Leners, queries, deunet nories à in this issue will, if possible, de actended to 9257 21-14 6.

#### The Popularity of Strophanthus.

STR.-There is one statement in Mr. A. Stark's admirable Siz.—There is one statement in the data a exception Burroughs. Welloome prize essay to which we take exception until the writer furnishes details in support of it. He says, speaking of strophanthus. "As a rival to diritalis, its popularity is decidedly on the ware." So far from this being the case, our experience is that strophanthus is still, and very decidedly, on the wax. Within the last four weeks we have sold two hundred younds of the seeds in different small parcels, and could easily have doubled these transactions had one views of value not been a few gence higher than the buyers. This quantity is exclusive of theorure.

In reference to another remark of Mr. Stark's, we may say that stropharthin (world not "hispidin" be a better name () has become an article of commerce since his paper was written. Yours faithfully,

Galen Works, Dettiord, May 23.

JOEN MOSS & Co.

#### Carriage of Medicines Free by West-end Firms.

SIR.—I had a prescription brought to me to dispense this week by a gentleman from London who had it dispensed there, and in the envelope was a printed postcard containing forms for filling up when othering medicine, and an industion that modifies were sent carriage free and no charge

male for bones or packing. Now I would advise my provincial brethren, in order to meet this competition, to ask their customers whether these meet this dompetunes, to ass their distomers when its liese firms allow the price of the carriage, boxes, and packing when they wait to have their medicines made up and take them with them, and explain to their customers that they must make a pretty good profit if they do not, and offer to make them up less what the carriage, kc., would come to; they can easily compete with these firms in that way, as they have

oun easily compete when the comparisy instrumental in intro-not such heavy expenses. I may say that I was myself partly instrumental in intro-ducing the system when engaged in a large West-end firm. but we only fill it in self-defence, because others fill it, Yours faithfully. J.E. EXPER.

#### Holiday Experiences.

SEL-Your industrious correspondent "Heder" always strikes me as a remarkable compound of pharmaceutical humanity. He must be a real live said meeuw. Ask what question you like, and "Heder" is invariably to the front hamaniny. question you like, and "Heder" is invariably to the front with an answer, obviect or incorrect. Some of his recipes are "feasifuly and wouldefully" put together. Pray, sit, who is this remarkable being? Why does he continue to hide his light under a bushel? His intest communication is on "Holiday Experiences." Tastes certainly differ. When I take my walks abtoad I give "shop" a wide berth. "Heder," on the contrary, locks up his erring brethren, and with his profound wisdom and wast experience gathers materials for a sermon, and sends that sermon to you, sit, for the instruction and edification of lesser lights. Me-thinks that "Heder" might often give more heed to his own

ways and let other people heed theirs. I am sorry fothe chemist who has nothing else to do but clean and pish his shop bottles, and we are not all so blessed withthe as to be constantly sending to Maw's for the neest needin' style of shop round or elaborately fitted drawer if "Heder" had to spend a few market days in a business ike mine, where dispensing and ordinary retail are being oried on on the one side, and horse-powders, sheep-dipping, pch. Grounder, and turning seeds are being actively packedned sent out on the other, his superfine thoughts and intereing "Holiday Experiences" would probably receive a nde short.

Leominster, May 21.

#### The Medicine Stamp Act.

SIE,-The revis of the Chancellor of the Exchequer the question of Dr. Farguharson, given in your journal of Ma19, exhibits in a marked degree the apathetic character othe retail chemists and druggists of the United Kingdomund the great want of unanimity in questions affecting leir commercial prosperity.

The Chanceller was no doubt correct when he said has "the trade journals have on more than one occasiotex-pressed an opinion that those duties are administered 1 a considerate manner." When we remember the buy considerate mainer. When we territed the provision of penalties attaching to an infringement of the provision of the Act and the comprehensive wording of its value sections, complet with the difficulty of correctly its preting its meaning, it is certainly "considerate" or he preting its meaning, it is certainly "considerate" or he part of those who are engaged to see that its provisionare strictly carried out to administer it as it has been for me but the question of most importance to us as treat ----- z men is, Why should such an Act exist ! There is no cer tradesman so hemmed in by Acts of various kinds ashe universate but patient disciple of Histolapius. The deist informs you that "artificial teeth improve mastication ad cure indigestion," and yet we do not find that he has tout a stamp upon his manufactures. The scap-maker tellion a stamp upon his manifactures. The soap-maker telloo that his antiseptic soap is "all healing in skin diseas." or "prevents all scaly or other eruptions of the skin,"ad yet it is not necessary for these preparations to be sold dier the same restrictions as a "powder," prepared accordin to a Pharmacoporta, which is said to be "effectual" a larative. Subely the time has arrived when these anomies should be swept away.

There is another and equally important reason while penal clauses of this Act should be repeated. Occasionly, when there is a fear of an exidemic spreading, some mecal journal or the Board of Trade will give directions for he preparation of a medicine to be kept in readiness and the administered at the first indication of illness. Very fe of the public take the precaution to keep such recipes by the, and if the retail chemist prepares the medicine, if he stas the use it is intended for, he is in danger of coming pler this Act.

It seems to me, therefore, that a memorial setting ith our grievances should be drawn up, and copies sent tall parts of the United Kingdom for the signature of err registered chemist and druggist and then forwarded to be Chancellor of the Exchequer, either through the varus nembers of Parliament or or a deputation of representates from most of the large towns, asking him to repeal thisld and objectionable Act.

Yours respectfully, PENALTY. (60.11

[Many of the apparent " anomalies " of the administraph will be cleared up in the important treatise on the Medice Stamp Act, by Mr. Alpe, of the Solicitor's Department of Pe Board of Inland Revenue, which will shortly be published

A correspondent in the North of England, who has la y been penalised by the Board of Inland Bevenue, gives us to names and addresses of two persons in London who obtawd from him the articles for the sale of which he has to called upon to pay. It would be of interest to ascer a whether these persons are doing the cusiness on a kre-scale as common informers or whether they are simpling the service of the Board. Perhaps some other victims "0

M. J. ELLWOO.

and the second second ------------------

\_\_\_\_

1-11

-----

----

----------

\_ Im -

20 - 1 -----

E.T.

12 ------ - 3 3 

2 2 2 2

100 12/201

20000

- 200 -

4.6-

2 74 7 1

1. 2. - -

22 -

12-

100 .2. 1 : ETC.

VZ SAL

1202 70 10-2-21

12 24

- 08 1 ži 27 we had orders from unknown correspondents in London il kindly give us the names of the persons who have apped them.

#### Oxfordshire Linseed Poultice.

SIB,-Mr. A. Laitram, in dating his letter on the above bject from Oxford, would lead one to suppose his peculiar perience of linseed poultices arose in that city, but his lision to "the local doctor" rather contradicts that as-mption. A native of Somersetshire, who, by the way, was ver in Somerset, informs mc that in remote parts of the unty where linseed is grown it is a common practice to e the whole seed for poultices when the crushed cannot conveniently obtained. The general use of the whole ed as a matter of choice is quite a different thing, and is ssibly simply an instance of local prejudice.

East Finchley, London, N.

Yours faithfully. C. E. SAUNDERS.

#### Liniment of Turpentine.

SIR,-Seeing that the liniment. terebinth. trouble is conually exercising your correspondents, I am very pleased to able to endorse your remarks re Mr. Perry's suggestion, ntained in THE CHEMIST AND DRUGGIST of April 30, 87. I have heen using it since then, and find it makes a fect creamy liniment that keeps its condition admirably. d is not the slightest trouble to prepare.

I feel quite grateful to Mr. Perry for the hint.

Central Dispensary, I am, dear sir, yours, &c., rt Adelaide, South Australia, H. ANSON. April 10, 1888.

#### Tincture of Myrrh and Borax.

SIE,—Your correspondent, Mr. J. E. Ryder, does not tell whether the eau de Cologne is English or German. I yend my own form, which has stood the test of years :—

	Myrrh						3	oz.	
	Rhatany						274		
	Borax						2	*1	
	Honey						2		
	Glycerine		••				2	.,	
	Water		••	••			15		
	British eau de	Cologi	ne to	••			3 т	oints	
М.,	E. a.	-							
					Yours	tru	ıly,		

HEDER. (60 21.)

#### Professor Attfield's Ancestors.

'A propos of the new medicine to cure sea-sickness, it is perhaps generally known that King John gave several ds at Kepperton and Atterton, in Kent, to Solomon efeld (his descendants can he interviewed hy enterprising somen). Their forefathers held lands on the condition t as often as the king should he pleased to cross the aits of Dover, the said Solomon, or his heirs, should be iged to go with him, to hold his Majesty's head."

Ve found the above paragraph in the Court Journal of week, and, taking advantage of the permission so erously given by the scribbler who had put it together, wrote to the well-known professor at Bloomshury to ask some further particulars concerning the late lamented omon or for a repudiation of the relationship. In reply. fessor Attfield sends us the following characteristic stle:\_\_

IR,-I cannot throw light on the allusions in the excerpt have forwarded. It comes, I see, from the Court rnal, hence a joke is out of the question. I do not know ; any ancestor of mine ever lived in Kent, and I have er even heard of such places as Kepperton or Atterton in " county. A document I possess, thanks to an old flent, shows that a John Attefeld flourished in the ville of indon, in Hertfordshire, in 1363. And, as the late Ham Southall was kind enough to prove to me, in 1327 a natte Felde, of Edgbaston, was taxed to the amount of ( shilling, being one-twentieth of his movahles, as his te of a subsidy for the defence of our kingdom against the Scotch. There is nothing occult either in the spelling or, for that matter, in the origin of the name. When Christian names no longer sufficed, our real English forefathers distinguished those who bore the same name by their surroundings or hy other peculiarities. Thus we got John-At-the-water, now John Atwater, John-At-the-felde, and so on. The latter name would become altered to Attefelde, Attefeld, Attfield, and, more recently, Atfield. It would be quite as interesting to me as to *Court Journal* readers to know that 120 years or so earlier than 1327 an Attefeld was chosen to ease the sufferings of King John in His Majesty's forced labours to feed the Channel fishes. It is not everybody who can hoast of heing the descendant, or at least the namesake, of one who could deftly hold a king's head at the awiul moment of sea-sickness. The Attefield, Attfield, or Atfield coat-of-arms, according to Burke's "General Armory," includes two frisky open-mouthed dolphins. I never could tell why, hut I now begin to see the justification. It would he odd if it should turn out that King John's head and those of my family's hig-nosed and open-jawed Channel dolphins are connected hy one tale. I also perceive a possible reason for there having heen so many Johns in our comparatively small family since the time of our patron king. I had no idea that we ever had a Solomon amongst us until I read your cutting from the Court Journal; but I am not sorry, for the name is suggestive of wisdom, and points to a judicious and gentle admixture of race. [Not jew-dish-us and gentile, compositor, please—I hate puns.] Pray, sir, ask your readers to aid you, and me, in clearing up the allusions to which you refer. There really would seem to have been quite an arta lost art, I fear-in holding another man's head properly at a time when one is so apt to lose one's own altogether. Seriously, though not keen on such matters, I should be glad of any private contribution to our pre-nineteenth century Yours faithfully, JOHN ATTFIELD. family history.

Ashlands, Watford, Herts, May 24.

#### The Grub (!) of Toothache.

SIE,—Most pharmacists have at some time or another sold "a penn'orth of henbane seeds" for the cure of toothache; many must know the method of effecting the cure, but few there are who believe in the wonderful properties ascribed to Hyoscyami semina. Their scepticism is mostly the result of their scientific training, not of any a posteriori chain of reasoning. Hence it is, perhaps, that so little has heen done in the direction of bottoming this fallacy. When in Lincolnshire during the autumn of last year, I was much impressed by the faith shown in henhane seed as a charmer of the toothache-grub hy people of sense and ability. One described to me how he was once a sceptic, hut resolved to try the experiment for himself, and having tried it, found the grubs floating in the water; thinking that even this might be an ocular delusion, he strained the water through a white cloth, and there on the cloth were unmistakably the much-maligned organisms, with a distinct white body and black head. This concrete example there was no resisting; the only thing to do now was to try the experiment and examine the animals. The following I was told was the correct method of procedure : Place the seeds on some hot cinders on a shovel, and when they begin to crackle, invert a bowl over the burning mass; as soon as comhustion is over, remove the bowl, fill with hot water and hold over it the open mouth so that the rising steam may enter freely. In about ten minutes examine the water, in the howl for gruhs. This method, I was told, had been adopted with great pecuniary success hy an old woman in the district, to whom people came for miles round. She always allayed their scepticism-if, indeed, they had anyhy showing the offending organisms to the patient, who could not conscientiously feel any pangs after having seen them.

I performed the experiment, observing all the necessary injunctions for its success, and-found the grubs ! There they were; there could be no mistake this time-little white worms with black heads. My believing friends were delighted, and à privri reasoning seemed doomed to destruction by the inductive methods of a Lincolnshire quack. But the sceptic element refused to he so overridden, and I inquired if there was a microscope about the place. Fortunately there was-a cheap instrument, hut, under the

1-17

30

T

-

circumstances, quite a godsend, and I set to work with a heavy heart. Soon a cellular structure was made out, and, on squeezing, a mass of granules, but no organisation that would suggest the presence of an animal. The black head was opque and structureless. No motion could be detected in any part of the organism. Somewhat puzzled, I repeated the experiment, but this time left out the most important element—in fact, did not bring my mouth over the bowl. The grubs were there as before. Evidently then they were not furnished by the teeth. A more careful examination of them was then made, and they turned out to be nothing more nor less than the embryos of hyoscyamus, which had been projected from the heated albumen of the seeds owing to its expanding at a greater rate than the testa, and had lodged in the upper reaches of the bowl only to be dislodged by the water poured into it. The black heads were simply the charred ends of the embryos.

I was much surprised, not to say amused, to find that so eminent an authority as Mr. Jabez Hogg had gone out of his way to try and show that the "grub of toothache" was the embryo of an entozoon and to account for its presence by charging the host with eating tainted meat. Either the mounted slide he had sent to him was not the genuine article, or he has fallen into a most serious error. In any case if he performs a "blank experiment" he will find no need to call in the help of the trematoda to account for the appearance of this remarkable " worm " under the circumstances noted. Sheffield. G. A. GRIERSON.

Corner for Students .- We have received several letters from correspondents in Nottingham directing our attention to the fact that the gentleman to whom the first prize was awarded last week is not engaged in a chemist's shop, but is, as we understand, occupied solely in laboratory and analytical work in the university. The letters we have received do not appear to be written for publication, though we do not see why the subject should not be ventilated. We may, at any rate, state our view. The "Corner for Students" is primarily intended for advanced students who are either subscribers to this journal or in the employment of such subscribers. We have never laid down any restrictions as to age, experience, or immediate occupation, and several times the prizes have been taken by students during their college career (at Bloomsbury and elsewhere). Of course such competitors are hard rivals for shop apprentices; but our idea has never been that competitors have entered into these contests merely for the sake of what they could get out of them, and we have always found that the good taste of men who have advanced beyond the need of this stimulus has induced them to retire without any distinct rule being laid down that they should do so. If any of our Nottingham friends will try to frame regulations for the "Corner" at once sufficiently comprehensive and sufficiently exclusive, they will appreciate our difficulty.

#### DISPENSING NOTES.

The opinions of practical readers are invited on subjects discussed under this heading.

Dispensers who have compounded any of the following prescriptions, or similar ones, are requested to communicate their results to the Editor.

#### Aq. Flor. Aurant.

SIR,-Aq. flor. aurantii, q.s., being ordered in a mixture, is it customary to use the dilute or triple strength? On dispensing a prescription with the former, a customer complained that it was not so strong of orange-flowers as that which he had previously at Tunbridge Wells, by which I conclude the triple had been used. Yours truly,

Parade, Canterbury, May 15. J. F. KINGZETT.

[We have seen both used. What is the custom of the trade? Post-card replies will oblige.]

Ferri ammon. cit.	••	••		••	gr. 80	
Syr. auranti <b>i .</b> .		••	••	••	3j.	
Liq. arsen. hydroc	hler.	••	••	••	m48	1
Inf. cascarillæ ad	••	••	••	••	Zviij.	1
M						

3ss. after meals, by measure.

This mixture, after standing ten days, becomes quite lick; HIBERNIA, (583) why is this?

[A suggestive article on combinations similar to the will metering to the be found in our twenty-ninth volume, page 16. As the bove mining in mixture contains no pectinous ingredient the viscoty is the applicants doub'less due to the presence and action of some orgaism, whether we the mycelia of which, ramifying through the mixture, part motion to a the viscous appearance.]

#### An Explosive Mixture.

D. T. E. (60/5) has compounded the mixture metoned with the by "Saccharine" three weeks ago, and as yet it shys no  $a_{\pm}$ sign of bursting the bottle.

#### The Emulsion Query.

The following was submitted last week :--

Ol. jecoris			••	••	••	3iss.
Ferri ammon.	cit.	••	••	••		3ij.
Glycerini	••			••		3j.
Aq. calcis ad	••	••	••	••	••	3i⊽.
Two teaspoonfuls three	times	a day.				

Heder says:-" By working into the formula 2 dchms of powdered acacia and 5 grains tragacanth, an eulsion may be made-stable and presentable, but not palatele. I all the later and the stable and presentable and prese could not make a satisfactory mixture without the gus."

Mr. E. Jones, 52 Royal York Crescent, Clifton, ys:-"After trying various methods, I found the following good mode of preparing the emulsion :- Mix the ol. jeco with Siss. gum acacia, pulv., then add all at opec 3iv. aq alcis; rub together, and add gradually another Siij. aq. calci Add - add to this the 3j. glycerine, shake together well in the ottle, turble r and lastly add the forri am. cit., previously dissolved 358. of the aq. calcis, and make up to the required Ziv. vh aq. calcis. The above I found went very well, and made nice cmulsion.

SIR,—In reply to the "Emulsion Query" in yo last the mixture cannot be dispensed as written. The ol. coris, if shaken first with the aq. calcis and then with the gluerine, forms an emulsion which is destroyed by the ferri amon.

The following modification of the formula gives good result :- Rub the ol. jecoris, 3iss, with 3iij. pulv. acaæ, in a dry mortar; add 3vj. aquæ dest., and rub till an ed sion is formed. Add 3ij. more water, then, successive, the 5j. glycerin. and liq. calcis sacch. m40. Add the wile to the ferri ammon. cit. 3ij, previously powdered in dry mortar.

The mixture is still better if the lime be entirely o tted. Of course neither the addition of gum nor the omison of lime should be made without the sanction of the prestber. H. CAMPILL. Queen's Hospital, Birmingham.

May 22.

#### Iodoform Ointment (57/41).

SIR,-Iodoform, 3ij, will not dissolve in vaseline, j.; it should be very finely powdered and mixed in the cold But in attempting to dissolve the iodoform "Gentian" iould have used a water-bath, not a naked flame. H. CAMPILL.

In reply to "Gentian's" inquiry, Mr. H. Helbing, t the German Hospital, writes that heat should not be apjed to any ointment containing iodoform. Heat nearly alw s decomposes iodoform, liberating iodine, more or less, act ding to the degree of heat applied. This decomposition is nilar

[May 26, 13,

ih light on it and an e the intrent re

in nih the rate lieof a bright re 🕫

THE SELLAT THE L

- For T. . .

of accepted in

Nie renar an

gaof this partie a

optract w."

ality because a

a any premision

at to a chemin a did for sis e s

, temps it a " ber have b . . .

QDEST: De 1 T

1. 16 5217 1

and should in

of distance

tistery unfair that a

drace trop one

particity of en erms.

Reparers as we ten bar al ber want

10: à 10 re

at to Mr. Loren - F

241 1969

ibert e ...

that effected by light on iodoform ointments. The proper is to dispense the ointment ordered is to rub up finelywdered iodoform with the vaseline added gradually. The imment should be of a bright yellow colour.

Heder expresses a similar opinion.

#### LEGAL QUERIES

32 60. La<sup>\*</sup>or.— You will see how to proceed in opposing nde-mark by referring to page 260 of THE CHEMISTS' D DRUGGISTS' DIARY, 1883. You had better first cominicate with the applicants. Perhaps they will change if mark, or come to terms with you. You must enter the of opposition within two months of the advertisement the mark.

159. *T. G. R.*—The Pharmacy Act does not apply to the annel Islands; but they have adopted most of its proions in Guernsey.

559. A. J. C.—Certificate of having passed the British mination is not accepted in lieu of any similar examinain America. We have published a number of articles criptive of the Minor examination, to which we must refer for "some idea" of it. You will find such narratives in monthly parts of this journal for June, July, and August, 5.

159. Apprentice — If your master deliberately refuses to illispart of the contract with you, you can no doubt claim have the indentures cancelled, and possibly you may be thed to damages. But it is not possible for us to say ther your grounds of complaint are trivial or serious. In the better get your parents or guardians to act for you he matter if they think it necessary.

557. Rhei.-We do not make out from the papers and hts you send us whether you have any real grievance or The Pharmacy Acts, 1863 and 1869, gave the right of ming eligible for the Modified examination to any person should before December 31, 1869, produce to the listrar certificates of having been actually engaged for a 1d of not less than three years in the dispensing and (ponding of prescriptions as an assistant to a pharmatical chemist or chemist and druggist in Great Britain. gather from your first letter that the Registrar refused trant you this eligibility because at the time of the passiof the Act you were an assistant in Dublin. The questare, were you, on July 31, 1853, of full age? Had you to been engaged at any previous time for not less than the years as assistant to a chemist and druggist in Great tun? And, lastly, did you state all this to the Registrar the December 31, 1869? It is utterly useless to send Fions to the Council, telling them of your apprenticeship 9 your family. They have no power to make any concesito you. The only questions of any practical importance a what did you say to Mr. Bremridge, and what did he % oyou in 1868 and 1869?

45. X. F. Z. writes: -B. is a town in the Poor-law dict of M., and with its surrounding parishes constitutes bilistricts, with a medical officer for each, and the dis-P ng is given, without tenders being given or called for, to chemist there. Is it not the custom of Boards of 6 dians to divide their favours equally between the dists of the town, and should they not in common fairness wided, it being understood that the patients suffer no z venience on account of distance ?

e should say it is very unfair that a Board of Guardians and obtain all their drugs from one chemist, without is others an opportunity of tendering. But their duty consider the ratepayers as well as the patients, and thand, therefore, buy all they want on the best possible is. "X. Y. Z.' should address them officially on the xt] 57,64. J. W.—Any executor, administrator, or trustee of the estate of a deceased chemist and druggist may carry on the business of the chemist so long as he retains his capacity as executor, &c., and so lorg as a duly qualified assistant is employed to manage it. The executor may or may not be a relative of the deceased.

Prat Dumas.-Regarding the sale of koumiss, see our "Parliamentary News," April 14, page 473, and April 21, p. 508.

60 72. B. H. A.—The Lincoln Drug Company have registered the words "Elood Mixture" as a trade-mark. Mr. Annett (Beedzler & Co., Bishopsgate Street) has an action pending in which he applies for the removal of that mark from the register. The Lincoln people, on the other hand, are suing him for infringement; his defence is that his firm made blood mixture before they dil. The proprietors of Clarke's Blood Mixture have also obtained injunctions against persons selling a "blood-pur fying mixture," which they claimed to be a colourable infringement of their mark. But this contention has not been argued in any court of law. You ask whether you may call your preparation "Brown's Blood Purifying Mixture." You will see that if you do you may have to answer the firm alluded to, though if you were inclined to fight the question through we think you would win. See THE CHEMIST AND DEUGGIST, January 15, 1887.

60.46. Nil Desperandum.—We have not a distinct recollection of the manner in which the articles you name are put up, but if it is the case that the stamps are not properly and sufficiently pasted, stuck, fastened, or affixed to the packet, box, bottle, or other inclosure, so and in such manner as that such packet, &c, cannot be opened and the contents poured out or taken therefrom without so tearing the label that it cannot be made use of again, the person vending an article so defectively stamped, or a person receiving and keeping for retail sale even such articles, is liable to a penalty of 10/.

57 34. Carboy.—As the law stands at present the Preliminary examination may be passed before or during or after apprenticeship, or, indeed, irrespective of apprenticeship altogetner; and the three years which a candidate for the Minor must have spent in the occupation of dispensing need not have been passed since the passing of the Preliminary.

#### MISCELLANEOUS INQUIRIES.

A large number of correspondents ask us for formulæ which have already been published in this journal. It is not fair to more careful readers that we should frequently repeat such information, and so long as the back numbers containing the formulæ or replies required are in print we must decline to do so. Back numbers of our weekly issue can be obtained from the publisher at 44, each.

55 55. Linimentum puts this question :---" Will any of your readers tell me the reason for lin. camph. B.P. turning green when made by means of a water-bath l"

[Olive oil becomes green when heated. But why make limment of camphor by the heat of a water-bath? It is a very bad practice.]

55 50. Aspin.—Sal Aeratus is another name for bicarbonate of potash.

53/15 — *Plumbum.*—A good application for the **Tender** Skin of Horses is a mixture of glycerine, 1 oz., and fuller's earth, 2 drachms, boiled together and used cold.

57 2. *Optics.*—The address of the Royal Blind Pension Society is 235 Southwark Bridge Road, S.E.

58/55.—Mr. J. E. Ryder writes to corroborate A Country Chemist's statement regarding the irritation caused by Spermaceti Ointment, and adds that he thinks "if the ointment is made without benzoin our correspondent will find it more satisfactory."

58/56. Children's Powders.—You only sent one powder (weighing about  $1\frac{1}{2}$  grain), which was insufficient for both a qualitative and quantitative examination; but we should think that half a grain of calomel and one of sugar would be suitable proportions.

56/4. R. Jeffrey § Son.—We do not know any means for restoring the solubility of White Shellac which has become insoluble.

56/31. F. G. C. has not sent his name.

56/47. Medical.—We do not know the pamphlet which you refer to; perhaps you are thinking of the educational number of THE CHEMIST AND DRUGGIST (Sept. 17, 1887), which gives all information regarding medical examinations.

57/36. G. G.—You do not mention the kind of aniline dye for which you require a solvent. If it is the orange used for "hot-Tom," you will find either acetic or tartaric acid, in the proportion of 10 drops of the former and 5 grains of the latter to an ounce of water, quite suitable.

57/46. J. H. W.—Board of Health's Cholera Mixture.—Aromatic powder, 3 drachms; spt. of sal volatile, 3 drachms; tincture of catechu, 10 drachms; compound tincture of cardamoms, 6 drachms; tincture of opium, 1 drachm; chalk mixture to 1 pint. Dose, 1 oz. for an adult,  $\frac{1}{2}$  oz. for a child of 12, and  $\frac{1}{4}$  oz. for a child of 7 years, after each liquid motion.

57/62. W. A. H.—An ammoniated solution of nitrate of silver (30 grains to the oz.) first painted in the feather, followed by a little of a solution of pyrogallic acid (5 grains to the oz.) is the best dye for the feathers of pigeons. A weaker solution of the silver salt should be used for the wattle.

53/14. *Brunswicker.*—Berlin Black is simply a superior Brunswick black made with a hard bitumen carefully freed from insoluble matter. We have recently given receipts for black enamel.

58/26. Infusi.—Concentrated Infusions.—The best way of making quassia on the small scale is by simple maceration of 8 drachms of quassia in 5 oz. of boiling water for two hours, and repeat with other 4 oz. of boiling water, so that 8 oz. of the infusion may be obtained. When cold add 2 oz. of rectified spirit. Compound gentian infusion may be made by the same method, using eight times the Pharmacopecial quantities of its active ingredients and 4 oz. of rectified spirit to the pint.

59/17. Nemo does not give us the formula of his syrupus ferri lactophosphatis. When he sends that he should also send some of the deposit.

R. H. P.--Dreesche's Iron is the Liquor Ferri Albuminat. so much used in Germany at present. It is made in the following manner: --Take 30 grammes of dried egg albumen (or five times that quantity of fresh albumen, which makes a clearcr preparation) and place it in a mortar capable of holding a litre; rub the dried albumen to fine powder and add all at once 100 grammes of perchloride of iron dissolved in 100 grammes of water; stir constantly, as the albumen has a tandency to clot; and when the mixture is perfectly homogeneous add 60 c.c. of semi-normal soda solution, stir well so

as to complete the solution, and make it up to 500 greeness in weight. Now mix separately 330 grammes of cimmon water and 170 grammes of 90 per cent. alcohol, and ad this mixture to the alkaline fluid. The advantages of thi preparation are its powerful hæmatinic properties; it is ta aless and non-astringent.

57/52. Semper Eadem would like to hear of arme's experience as agent for a circulating library, if any c mist has filled such a position.

57/17. B. A. has not sent his name.

1

57/16. Aqua.—Meta-bisulphite of potash is a salt ad in photography as a developer in place of sulphite of s a, it being more stable in solution.

58/17. B. & S.—Martindale gives the following f mula for a Solution of Carmine to colour toilet preparation :----

Carmine	••	••	 40 grains
Distilled water	••	••	 q.s. to moisten
Strong solution	ofamn	nonia	 40 minims
Dissolve and add			
Distilled water,	to	••	 1 oz.

60/9. Cedric.—The tincture of cedar is made by zesting 2 oz. of cedar-wood shavings (the American cedar *luniperus Virginiana*, is the best kind) in 1 pint of proof s rit.

60/45. Desdichado. — Chlorodyne is perhaps the best general cholera remedy to send abroad. See an art e on "The Cholera in Spain," in THE CHEMIST AND DRIGIST, February 15, 1886. See also answer to "J. H. W." (p vious column).

Lipanin.—We stated recently in reply to a correspident that this article is supplied by the English agents ( Burgoyne & Co.) at 2s. 6d. per lb.; we should have 2s. 6d. per bottle.

C. S. Ashton.—We do not doubt that many other asons besides those suggested may have quite properly infinced the decision.

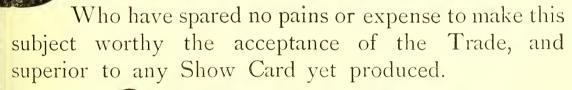
60/16. Kino.—Beyond the general knowledge that joke's Solar Elixir is a preparation of chiretta, we do not k wits composition.

56/42. North Cotswold.-Pepsin Wine.-It is 1t advisable to macerate the whole of the stomach in the men-struum, as the peptic ferment is contained in the acous lining. Two stomachs are sufficient for a pint of th wine; open these and wash slightly, then scrape off the acous surface and macerate for two days in a mixture of ydrochloric acid, 5j.; water, 3v.; and glycerine, 3ij.; ttl add 12 oz. of sherry and 1 oz. rectified spirit; macerate r five or six days. Most of the wine can be poured off p cetly bright, and the rest may be filtered in the ordinary inner. (2) Cascara Sagrada Extract.—Liquorice (liquid cract) effectually covers the taste of this medicine, whe some aromatic, such as compound tincture of cardamoms or inger, is added to it. We recently published a method su ested by Mr. Grazier, of San Francisco, consisting in treat 3 the powdered bark with calcined magnesia and water, at then percolating with alcohol in the ordinary way. The m nesia is intended to saponify the resin, which is the sourc f the bitterness, and so render it insoluble in the pohol. (3) Dogs poisoned with strychnine should get chloro m to inhale, or a good dose (say 30 grains) of chloral l trate. Phosphorus paste is a poison which is difficult to cor avert. A mixture of olive oil (3 parts) and turpentine (1 p:) ad ministered freely is the best antidote. (4) The ac n of sodium sulphite is milder than that of sulphurous at, and not injurious to the skin.

MAY 26, 1888.

THE CHEMIST AND DRUGGIST. SUPPLEMENT

## A Magnificent Show-Card, "BUBBLES" By Sir JOHN E. MILLAIS, Bart, R.A. WILL SHORTLY BE ISSUED BY MESSRS.



# £20,000

have already been spent upon it. It will be a facsimile of the original painting (the *chef-d'œuvre* of

## The Most Eminent English Artist

R J. E. MILLAIS, BART., R.A., purchased by Messrs. EARS for £2,200), from which original each copy will scarcely be distinguishable.

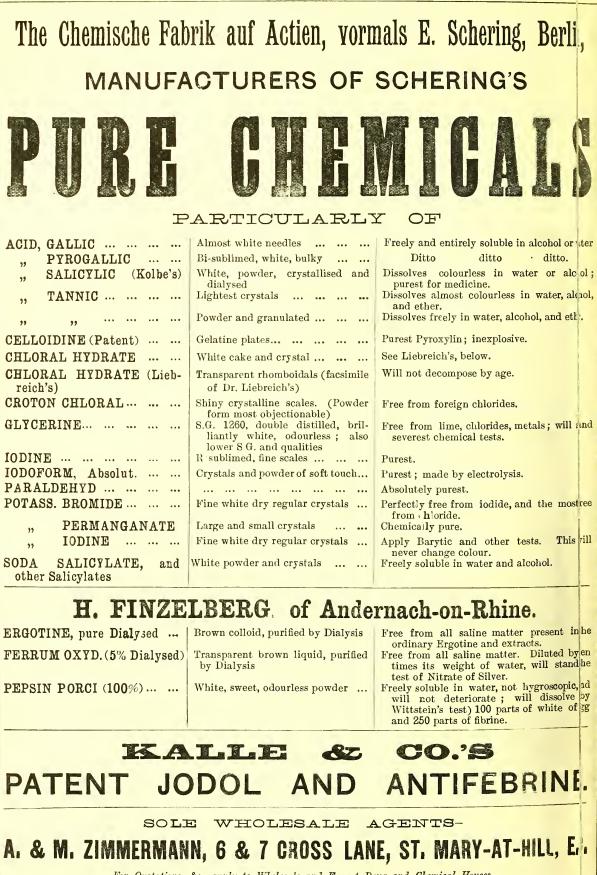
### Depots :

London: 71-75, New Oxford Street, w.c., London. New York: 365 and 367, Canal Street, New York, lelbourne: 132, Collins Street West, Melbourne.

xix

THE CHEMIST AND DRUGGIST.

MAY 26, 188.



For Quotations, &c., apply to Wholesale and Export Drug and Chemical Houses.

xx

MAY 26, 1888.

#### DT.T.TC T. BROWNE'S THD ORIGINAL AND ONLY GENUINE.

#### IMPORTANT CAUTIONS

#### om Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOL and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that 9. J. Collie Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as berately untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.' The VICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner, the

'rt would have given Dr. Browne protection.'

LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated 'the application been made at a proper time and place, the Court would have found means to restrain the Defendant from misr penting the decision of the Vice-Chancellor.

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrep Lation of the decision of Vice-Chancellor Wood.

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the *Times*, November 14t: 5, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she neve. d any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendar lishes the said testimonial as referring to his medicine.

The Editor of the Medical Times, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyn red to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is publishe the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the ntor of Chlorodyne, and that when prescribing they mean no other. The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation,

ertheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now imbent on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the renment Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempty inalysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

#### RTATNAT ANU

RADE Price Bott 18. COLLIS HLOR T.DAV

NLY GE

#### FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:--

	er ers ersenar entered judy ib era	oroa, oney invarianty suppry	21.0.00		
MARK	Apothecaries' Hall, London	Frazer & Green,	Glasgow	Morson, T., & Son,	Londor
	Allen, Hanbury & Co.,	Gale & Co.,	London	Newbery & Sons,	Londor
of this	Baiss Brothers,	Giles & Son.	Clifton	Oldham, G., & Co.,	Dublir
of the second	Banks & Richards, Birmingham	Goulding, Messre.	Cork	Parsons & Richardson	Leiceste)
tle 💭	Barron, Harvey & Co., London	Gratton & Co.,	Belfast	Peake, Allen & Co.,	Dublir
12d	Bell, John, & Co.,	Grimwade, Ridley,	London	Raimes & Co.,	York
S BROWN	Bourne & Taylor,	Grindley & Son,	Ohester	Raimes & Co.,	Edinburgh
ODVN	Corbyn & Co.,	Hearon, Squire & Francis,	London	Sang & Barker,	>>
	Cox & Gould,	Hodgkinson, Tonge & Stead	, ,,	Sanger, J., & Sons,	Londor
JFACTURE	Curling & Co.,	Hopkins & Williams,	22	Sim, James, & Co.,	Aberdeen
INCOR	Curtis & Co.,	Hovenden, R., & Sons,	22	Smeeton, W.,	Leeds
/ENPOR	Davy, M'Murdo & Co "	Hunt & Co.,	Exeter	Southall & Co.,	Birmingham
ry London	Dobbin, W., & Co., Limited Belfast	Hunt, A., & Co.,	>>	Sutton, W., & Co.,	Londor
ry Lone	Drew, Barron & Co., London	Johnson, J. H. & S.,	Liverpool	Tomlinson, Hayward &	
Could Be and	Drew, B., & Alexander,	Langton, W., & Co.,	London	Treacher, Hodgkinson &	
munut Sterm	Dunn & Company,	Lynch & Co.,	,,	Westrup, J. B.,	Kensington
enpot	Edwards, W.,	Mander, Weaver, Wolve	rhampton	Westwood & Hopkins,	Lincolı
100	Evans, Gadd & Co., Exeter	Marsden & Sons,	London	Woolley, James,	Manchester
- (220)	Evans, Lescher & Webb, London	Maw & Son,		Wyleys & Brown,	Coventry
5.4Y	Ferris & Co., Bristol	Meggeson & Co.,		Yates & Oo.,	London
ENUINE.	Foulger, S., & Son, London	Maokay, John, & Co., 1	Edinburgh		

After these public statements in a Court of Equity, and subsequent confirmation by the trade at large, no Chemist can cientiously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physician value of the remedy alone creates the great demand.

Sold in Bottles—1s. 1id., 2s. 9d., 4s. 6d., and 11s. Usual Discount to the Profession



xxi

THE CHEMIST AND DRUGGIST. SUPPLEMENT

<b>L</b> . &	z H. SM	L'I'H &	CC.				
MANUFACTURERS OF							
	HYDROCHLOR. powder and crystals.	JALAPINE SALIO	JINE				
	ACETAS	CHLOROFORM PURE					
MORPHIÆ TA	RTRAS troduced by us and specially prepared	CHLOROFORM METH. Our brand has been for 1	many years known to				
	hypodermic treatment.	the Wholesale Trade as ab					
CODEIA	APOMORPHIÆ MUR.	GINGERINE CAPS	ICINE				
ALOIN	RESINA SCAMMONII	CAMPHOR MONOBROM.					
	Address-21 Duke Street.						
NEW	YORK Office-20 Cedar Street: F	RA <sup>S.</sup> JA <sup>S.</sup> MACNAUGHTA	N, Agent. [1				
ACID AC	ETIC. B.P., ACID. ACI		Vineman and Picker				
	<b>DE of HYDROGEN</b> , for Block <b>RÆCIP</b> . Very White, Soft, a		ate, Ivory, Done 20.				
	ORIC ACID, B.P. strength a						
	RI PERCHLOR. FORT.	•					
POTASS	OSPHITES of LIME	, SODA, &c. $C$	YANIDE DI				
	t Ammon. Cit., Ferri et Quiniæ C	it., B.P., and other Scale P	reparations.				
DUNN &	CO., Stirling Chemical	Works, WEST HA	M, LUNDIN.				
RAO							
IVIO	RRIS &	UALLA	ARD				
-	PONTAMMAN CHE	-					
AMM	ANFORD, R.S.O.,		SHIRE.				
A'R AIA AIA	MANUFACTUI		,				
ACETIC			CD 1.0/1				
AUGIIU	ACID, P.B., ACETIC	AUD FURI, SF.	GR. 1045,				
WH	ITE AND GREY ACETATE	OF LEAD, ACETATE O	F SODA,				
PURE UNAD	ULTERATED WOOD NAPHTHA	A, SULPHURIC ACID, A	ND CHARCOL.				
	PRICES AND SAMPLES						
	I MOED AND GAMPIED						
PAP/	AIN (FINKI	<b>C D</b> The new D combinit	GESTIVE FERMNT				
FAF	ALIA (FIIAVI	E III PEPSIN AN	D PANCREATIN.				
в.	SOLE AGENT FOR THE UNITED KÜHN, 36 St. Mai	KINGDOM AND EXPORT-	DON.				
USESINTERN	ALLY: In Dyspepsia and Gastralgia. Geo. Herschel	, M.D.Lond., writes in the British Medical J	ournal, April 3rd, 1886				
digests	far more energetically than best Pensin, when the solution	tion is concentrated as it exists in the human	stomach.				
	ALLY: It has been used by Bouchut in cutaneous ca. für Klin. Med., vi., H. 6), by Jacobi, of New York, for th	the Destant for directness the folge r	nombranes of Diphtheri see				

Zettsch. für Klin. Med., vi., H. 6), by Jacobi, of New York, for the same purpose, and recently Prof. Finkler himse to an assophagus occluded by carcinoma by the continuous administration of a solution.

PIL. (FINKLER). PAPAIN For the convenience of dispensing PAPAIN (FINKLER) these pills are made up in bottles of 25, 50, and 00 (one and two grains each), in convenient shapes for carrying in the pocket.

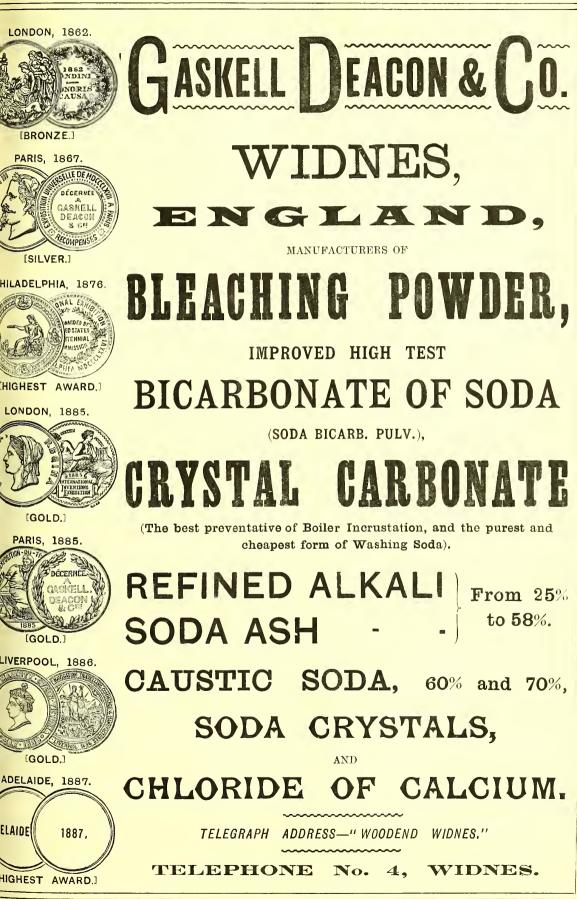
To be obtained through Messrs, F. NEWBERY & SONS, 1 King Edward St., LONDON; Messrs, JAMES WOOLLEY, SONS & CO., 69 Mark St. MANOHESTERS Messrs. McMASTER, HODGSON & CO., 121 and 122 Capel St., DUBLIN; and the Wholesale Druggists in the United Kingd .

MAY 26, 181.

5 10 IAY 26, 1888.

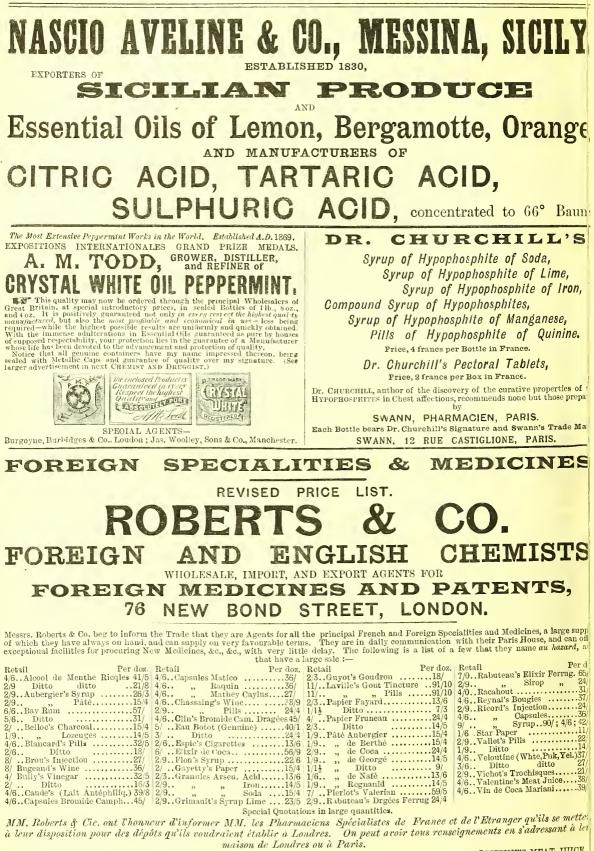
THE CHEMIST AND DRUGGIST. SUPPLEMENT

xxiii



THE CHEMIST AND DRUGGIST. SHPPLEMENT

MAY 26, 1888.



SPECIAL AGENTS FOR MARIANI'S ELINIR, EXTRACT PATE, PILLS, SYRUP AND WINE OF COCA, AND FOR VALENTINE'S MEAT JUICE AND LE GRAND'S ORIZA PERFUMERY.

Established] 38

House in Paris: ROBERTS & CO., Rue de la Paix 5.

1

MAY 26, 1888.

London International and Universal Exhibition, 1884, Gold Medal Awarded for our Pharmaceutical Preparations. Calcutta Exhibition, First-class Certificate and Two Prize Medals Awarded for our Pharmaceutical Preparations.



SPECIMEN TESTIMONIALS.

Frem JOHN TANNER, M.D., L.R.C.P., M.R.C.S., L.S.A., L.M., Physician to Farringdon Dispensary, London; Physician to the Rev. C. H. Spurgeon's Metropolitan College, &c.

102 HARLEY STREET, CAVENDISH SQUARE, W. 'It gives me great pleasure to bear testimony in favour of FREEMAN'S Chlorodyne. I have prescribed it extensively, and in cases of Asthma, Chronic Bronchitis, the last stage of Phthisis, and the Winter Couch of the aged, I have never found any substitute or chemical combination its equal.' tice, at bome and abroad, who have given numerous written testimonials of its wonderful efficacy.

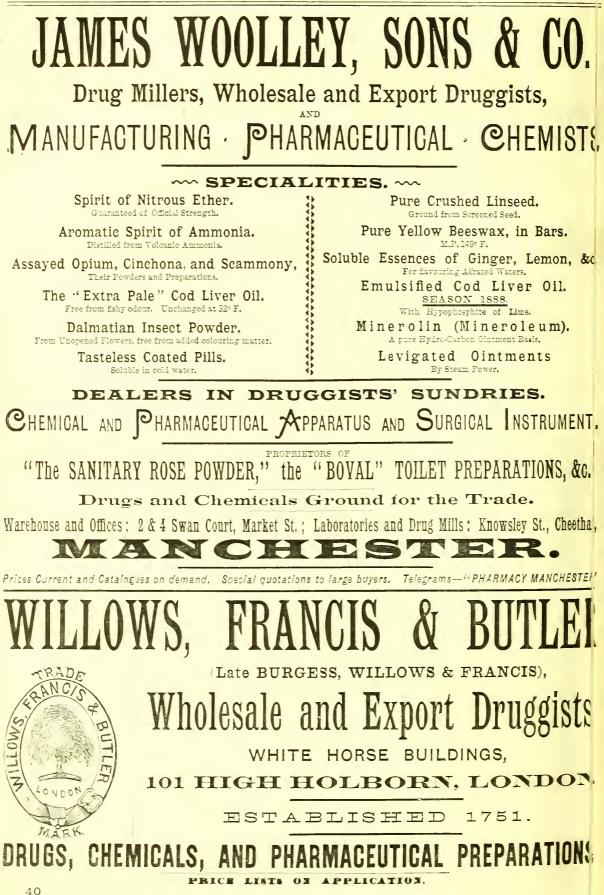
From J. DODD SWALLOW, M.D., M.R.C.S., Eng.; L.A.S.; Medical Officer to the London City Missions, &c., &c. 213 CLAPHAM ROAD, LONDON, S.W.
'I have great pleasure in stating that I am constantly prescribing FREEMAN'S Chlorodyne. In Consumption and Asthma, as a Sedative; in Cancer, and in cases of Diarrhea and Dysentery, I am daily witnessing its striking effects, and believe that the thanks of the profession are due to Mr. FREEMAN for his efforts to bring prominently before the profession so valuable and reliable a remedy as the Chlorodyne which bears his name.'

DEAR SIR,—I send by same post £116s., or 46 frances, for 8 bottles, value 4s. 6d. cach. Your Chlorodyne has been used in a case of Cancer, notorious at the patient was too weak to stand operation. Now, Dr. Metcalfe said the same thing, and your Chlorodyne cured the person, which, indeed, is my servant, after six years being still alive and perfectly well. I think it is due to you, as the Inventor of the remacy, to state the fact, that others in similar circumstances may never despair as long as life is in the body. I authorise you to use my letter as you may think best, and also my name, to present people being humbugged by other rubbish, &c. Yours truly, WALTERD CANACTER LAND.

Sold by Chemists and Patent Medicine Dealers all over the world, in bottles, 1s. 14d.; 2 oz., 2s. 9d.; 4 oz., 4s. 6d.; half-pints, 11s.; and pints, 20s. each; and by the Inventor, RICHARD FREEMAN, 70 Kennington Park Road, London, S.E.

Purchasers are eautioned not to have palmed upon them any substitute. See that the Trade Mark, "The Elephant," is on the wrapper, ge., and that the words Freeman's Original Chlorodyne are engraved on the Government Stamp, which is the only true Chlorodyne.

N.B.-Lord Chancellor Selborne, Lord Justice James, and Lord Justice Mellish decided in favour of Freeman's Original Chlorodyne, and against Brown and Davenport, compelling them to pay all costs in the suits. See Times of July 24, 1873.



xxvi

MAY 26, 1888.

THE CHEMIST AND DRUGGIST. SUPPLEMENT

ESTABLISHED OVER 140 YEARS.

# BURGOYNE, BURBIDGES, CYRIAX & FARRIES, WHOLESALE & EXPORT DRUGGISTS,

PHARMACEUTICAL PREPARATIONS,

AND MAKERS OF

### Technical and Scientific Chemicals, Alkaloids, &c.,

## IMPORTERS & DISTILLERS OF ESSENTIAL OILS,

DEALERS IN

Druggists' Sundries, Chemical & Pharmaceutical Apparatus, Surgical Instruments, Patent Medicines, &c., &c.

New remedies stocked immediately upon introduction. Preparations prepared according to the formulæ of all the known Pharmacopæias. Correspondence and Lists in all foreign languages.

SAMPLES AND SPECIAL QUOTATIONS UPON APPLICATION.

PRIZE PARIS, 1867. PARIS, 1878.

MEDALS: CALCUTTA, 1884. EDINBURGH, 1886.

Offices: 12 COLEMAN STREET; Laboratories and Warehouse: 16 COLEMAN STREET, LONDON, E.C.

PARKE, DAVIS & CO.'S Fluid Extracts, Pharmaceutical Preparations, &c., &c.

#### THE CHEMIST AND DRUGGIST. SUPPLEMENT

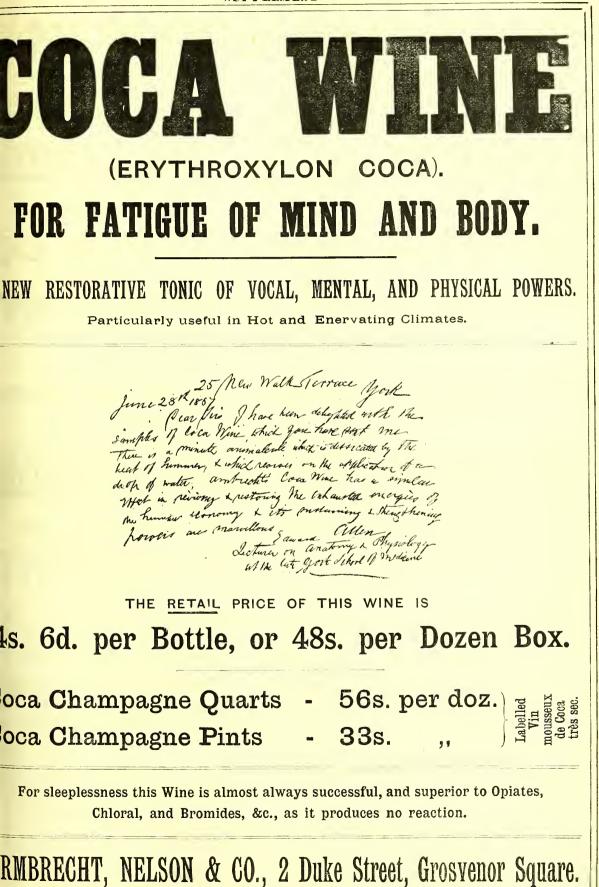
May 26, 1888

0r



AY 26, 1888.

THE CHEMIST AND DRUGGIST. SUPPLEMENT



43

xxix

#### THE CHEMIST AND DRUGGIST. SUPPLEMENT

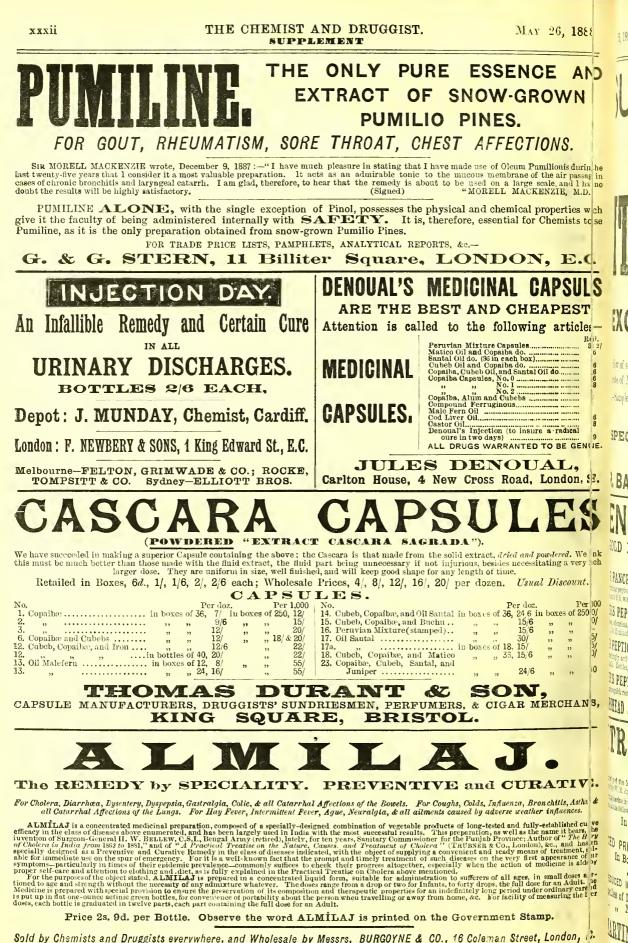
MAY 26, 188.

\$ 1888

0

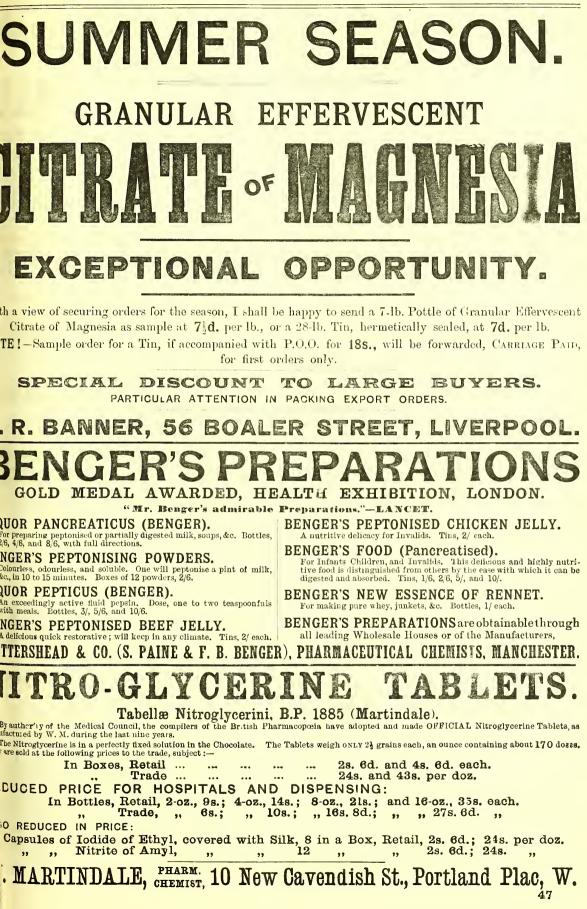






Sold by Chemists and Druggists everywhere, and Wholesale by Messrs. BURGOYNE & CO., 16 Coleman Street, London, 🖓 46

THE CHEMIST AND DRUGGIST. SUPPLEMENT xxxiii



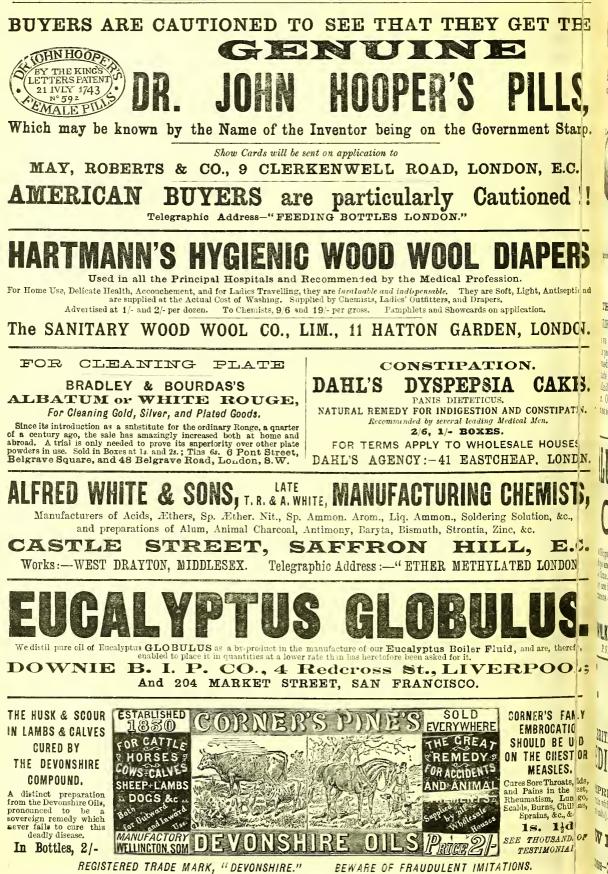
THE CHEMIST AND DRUGGIST. SUPPLEMENT

MAY 26, 1888

11

原新

Po



THE CHEMIST AND DRUGGIST.



#### IN THE HIGH COURT OF JUSTICE, CHANCERY DIVISION.

GRIFFIN v. NOAKES. 1887. G. No. 1,088.

GRIFFIN v. FRAVER. 1887. G. No. 1087.

XXXV

As we understand from some of our Clients that, from false representations made, an impression prevails that the proceedings in these actions have failed, we beg to inform the public that such is not the fact, and that the proceedings are being carried on as fast as possible, in the Chancery Division of the Court, to restrain the Defendants from selling or making Tins similar to those manufactured by us, and from infringing our Patents. The Defendants, pending the proceedings, have been ordered by the Court to keep an account of all sales made by them. Our Solicitors, Messrs. CLARKSON, GREENWELL & Co., have had instructions from us to proceed against all persons so offending.

FOR THE SELF-OPENING TIN BOX COMPANY, G. FEATHERSTONE GRIFFIN, Manager.

# VALUABLE & INTERESTING TO EVERYBODY COMPRESSED HOPS.

Best Hops compressed into small parcels of one pound and half-pounds, and sent out in cases containing 30 lbs. each. These Hops are specially selected and compressed for keeping purposes, and will retain their aromatic strength for a considerable time.

They are introduced to the Public to enable them to make their own BITTERS, YEAST, HOME BREWING, and numerous other purposes. Full particulars given on each packet.

A. WILKINSON & SONS, 27 DERBY LANE, OLD SWAN, LIVERPOOL. P.S.— Chemists will naturally see the great advantage in making their own Bitters from the Pure Hop itself.



# BRITISH PHARMACOPCEIA, THROAT HOSPITAL, and every description of MEDICATED LOZENGES & BOILED SWEETS

For sale by Chemists, for Wholesale and Export; also COMPRESSED TABLETS, including Ammonium Chlorid., Camphor (with Sugar), Cocain, Cocain with Pot. Chlor. and Borax, "Voice Tablets"; Potassium Bicarbonate, Potassium Chlorate (from chemically pure salts), Potassium Chlorate with Borax, Saccharin,  $\frac{1}{4}$ -grain,  $\frac{1}{2}$ -grain, and 1-grain. SOLE PROPRIETORS OF





DF

RIA

THE CHEMIST AND DRUGGIST.



51

14

ile food wi to being p evlighted

Mal He

Ma 2 ,

53

Carle's ]

are the p profice on S. Cl

an, at 3

AT



SAM CLARKE'S

WARMER

ARE THE ONLY

LIGHTS SUITABLE

FOR THESE LAMPS

FOOD

CLARKES PY RAMID FOODWA Para Para

CLARKE'S

PATENT PYRAMID

NICHT LICHTS SHOURS

## CLARKE'S SAMUEL PATENT **PYRAMID'' NURSERY LAMP FOOD WARMERS.**



15

"PYRAMID" NIGHT LAMPS, 6s. per doz., Lacquered or Bronze "PYRAMID" NIGHT LIGHTS, 7s. 6d. per doz. boxes. Less 5 per cent. Cash. 8 Lights in each Box, burn 9 hours each.

The "Pyramid" Night Lamps render the hurning a Night Light perfectly safe, entirely prevent FLICKERING (so objectionable in all Night Lights not burned in a Lamp), are clean, portable, and render a Night Light useful for many purposes where they otherwise would not he.

The "Pyramid" Food Warmers, hy their peculiar construction -the glass chimney conducting and concentrating heat to the bottom of the water vessel-a larger amount of LIGHT and HEAT is obtained than can be in any other lamp of the same class. Without SMOKE or EMELL.

The "Pyramid" Night Lights are made much larger than any other Night Light, and give double the light; they are, therefore, very suitable for nursery lamps, lighting passages, lobbies, &c., and adaptable to many purposes for which the common Night Lights are uscless.

#### DIRECTIONS FOR USING THE PATENT "PYRAMID " FOOD WARMER AND NIGHT LIGHTS.

The food which is required to be kept hot to be placed in the porcelain panakin, and water in the tin vessel-just sufficient to admit of the porcelain akin being placed therein. Care should be taken in lighting the Night Lights not to injure the top, which is a protection for the wick, but simply by a lighted match or taper, and allow the material to melt away.

RETAIL.										WHOLESALE.			REDUCED PRICES-NET CASH.					
							3s.	6d.	each			30s. per	r dozen	••	•••	27/- 1	per dozen.	Tara
o. 2	,,	Three-0	quarte	rs Pint Food	ι"	,,	5s.	0d.	,,	••	••	36s.	99	••	•••	30/-	**	Less
												42s.	,,	••	٤.	33/-	,,	5 per cent.
larke	's Hot	Water :	Lamps	;			2s.	6d.	,,			20s.	•7		•••	18/-	,,	for
"	"Pyı	ramid "	Night	Lamps			1s.	0 d.	"			8s.	,,		••	6/-	**	Cash.
,,		,,	*7	Lights	••					••	7:	. 6d.	"				)	
	o. 2 o. 3 larke "	o. 2 " o. 3 " larke's Hot ""Pyr	o. 2 " Tnree- o. 3 " One Pi larke's Hot Water " "Pyramid"	0.2 " Three-quarte 0.3 " One Pint Foo larke's Hot Water Lamps " "Pyramid" Night	<ul> <li>2 , Three-quarters Pint Food</li> <li>3 , One Pint Food</li> <li>larke's Hot Water Lamps</li> <li>, "Pyramid" Night Lamps</li> </ul>	o. 2       ,, Three-quarters Pint Food ,,         o. 3       ,, One Pint Food ,,         larke's Hot Water Lamps       ,,         "Pyramid" Night Lamps	o. 2       , Three-quarters Pint Food ,, ,,         o. 3       , One Pint Food ,, ,,         larke's Hot Water Lamps	o. 1 Holds Half-pint Food, besides Water, price       3s.         o. 2       , Three-quarters Pint Food       , , 5s.         o. 3       , One Pint Food       , , 6s.         larke's Hot Water Lamps       2s.       1s.	0. 1 Holds Half-pint Food, besides Water, price       3s. 6d.         0. 2 " Three-quarters Pint Food " " 5s. 0d.       5s. 0d.         0. 3 " One Pint Food " " 6s. 0d.       1arke's Hot Water Lamps 2s. 6d.         " "Pyramid" Night Lamps 1s. 0d.	o. 1 Holds Half-pint Food, besides Water, price       3s. 6d. each         o. 2 " Three-quarters Pint Food " " 5s. 0d. "         o. 3 " One Pint Food " " 6s. 0d. "         larke's Hot Water Lamps 2s. 6d. "         " "Pyramid" Night Lamps 1s. 0d. "	o. 1 Holds Half-pint Food, besides Water, price       3s. 6d. each          o. 2 " Three-quarters Pint Food " " 5s. 0d. "       5s. 0d. "         o. 3 " One Pint Food " " 6s. 0d. "       larke's Hot Water Lamps 2s. 6d. "         " "Pyramid" Night Lamps 1s. 0d. "	o. 1 Holds Half-pint Food, besides Water, price       3s. 6d. each          o. 2 " Three-quarters Pint Food " " 5s. 0d. "       5s. 0d. "         o. 3 " One Pint Food " " 6s. 0d. "        2s. 6d. "         larke's Hot Water Lamps	0. 1 Holds Half-pint Food, besides Water, price       3s. 6d. each        30s. per         0. 2       ,, Tnree-quarters Pint Food       ,,       ,       5s. 0d. ,,        36s.         0. 3       , One Pint Food       ,,       ,       6s. 0d. ,,        42s.         larke's Hot Water Lamps        2s. 6d. ,        20s.         ,       "Pyramid" Night Lamps        1s. 0d. ,        8s.	o. 1 Holds Half-pint Food, besides Water, price       3s. 6d. each         30s. per dozen         o. 2       ,,       Three-quarters Pint Food, ,,       ,,       5s. 0d. ,,         36s. ,,         o. 3       ,       One Pint Food, ,,       ,,       6s. 0d. ,,         36s. ,,         ake's Hot Water Lamps        2s. 6d. ,,         2s. 6d. ,,          ,,       "Pyramid" Night Lamps        1s. 0d. ,,        8s. ,,	0. 1 Holds Half-pint Food, besides Water, price       38, 6d. each        30s. per dozen          0. 2 ,, Three-quarters Pint Food ,, ,, 5s. 0d. ,,        5s. 0d. ,,        36s. ,,         0. 3 ,, 0ne Pint Food ,, ,, 6s. 0d. ,,        2s. 6d. ,,        2s. 6d. ,,         akke's Hot Water Lamps        1s. 0d. ,,        8s. ,	o. 1 Holds Half-pint Food, besides Water, price       3s. 6d. each        30s. per dozen          o. 2       ,, Three-quarters Pint Food       ,, ,       5s. 0d. ,,        36s. ,,          o. 3       , One Pint Food       ,, ,       6s. 0d. ,,        42s. ,,          ake's Hot Water Lamps        2s. 6d. ,,        20s. ,,          , "Pyramid" Night Lamps        1s. 0d. ,,        8s. ,	o. 1 Holds Half-pint Food, besides Water, price       38. 6d. each        30s. per dozen        27/- 1         o. 2       , Three-quarters Pint Food       , ,       5s. 0d. ,        36s. ,        30/-         o. 3       , One Pint Food       , ,       6s. 0d. ,        42s. ,        33/-         larke's Hot Water Lamps        2s. 6d. ,        20s. ,        18/-         , "Pyramid" Night Lamps        1s. 0d. ,        8s. ,        6/-	o. 1 Holds Half-pint Food, besides Water, price       38. 6d. each        30s. per dozen        27/- per dozen.         o. 2       , Three-quarters Pint Food       , ,       5s. 0d. ,        36s. ,        30/- ,         o. 3       , One Pint Food       , ,       6s. 0d. ,         36s. ,         30/- ,         ake's Hot Water Lamps        2s. 6d. ,         20s. ,        18/- ,         , "Pyramid" Night Lamps        1s. 0d. ,        8s. ,        6/- ,

CAUTION.—The Patentee, in reply to unmerous consumers, hegs to state that he will warrant his PATENT "PYRAMID" FOOD WARMERS unswer the purpose for which they are recommended only when the "Pyramid" Night Lights are burned in them; the common night lights will give sufficient heat. Persons who find a difficulty in obtaining the "Pyramid" Night Lights in good condition are requested to write to the entee. S. CLARKE Patent "Pyramid" Night Light Works, Cricklewood, London, N.W., who will give the address of his nearest agent. The yramid" Night Lights are best when newly made; the "Pyramid" Food Warmers are sold by all respectbale dealers throughout the igdom, at 3s. 6d., 5s., and 6s. each.

3d., 5s., and bs. cach. N.B.-EXTRAS.-Porcelaiu Panakins, No. 1 No. 2 8s. 9s. Lids 28. per dozen, 38. ... ,, ,, :: ... :: 10s. No. 3 4s. ,, No. 3, 12s. per dozen. Opaline, 6s. ; Coloured, 6s. per doz. Tin Panakins, No. 1, 8s. ... Clear Glasses, 4s. ... No. 2, 10s. Roughed, 6s. •• ...

# ATENT "PYRAMID" NIGHT LIGHT WORKS. CRICKLEWOOD, LONDON, N.W. N.B.—See that the Trade Mark, "PYRAMID," is on every Lamp and Light.

100

I AP TO

E

ICE S

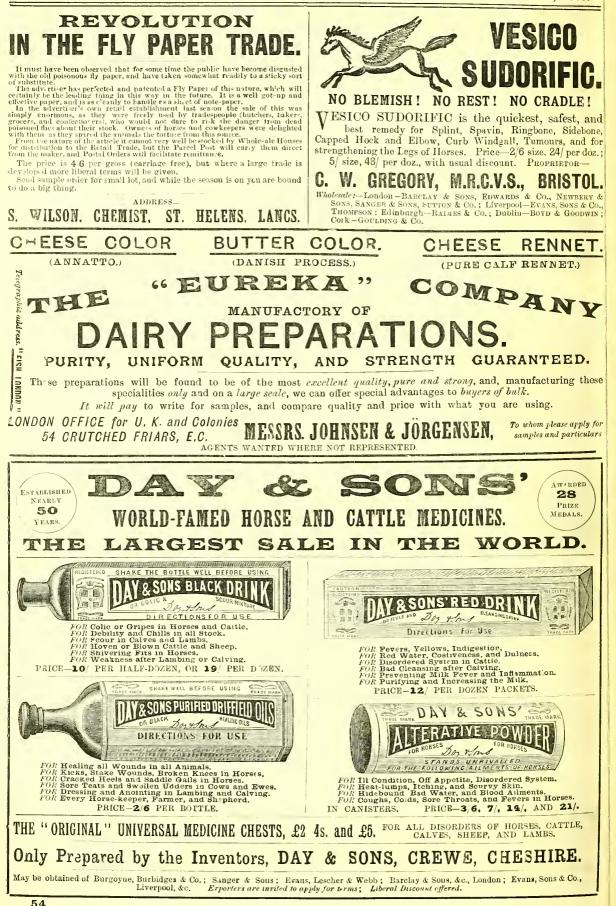
11

MES

23

7 8be

LIVER

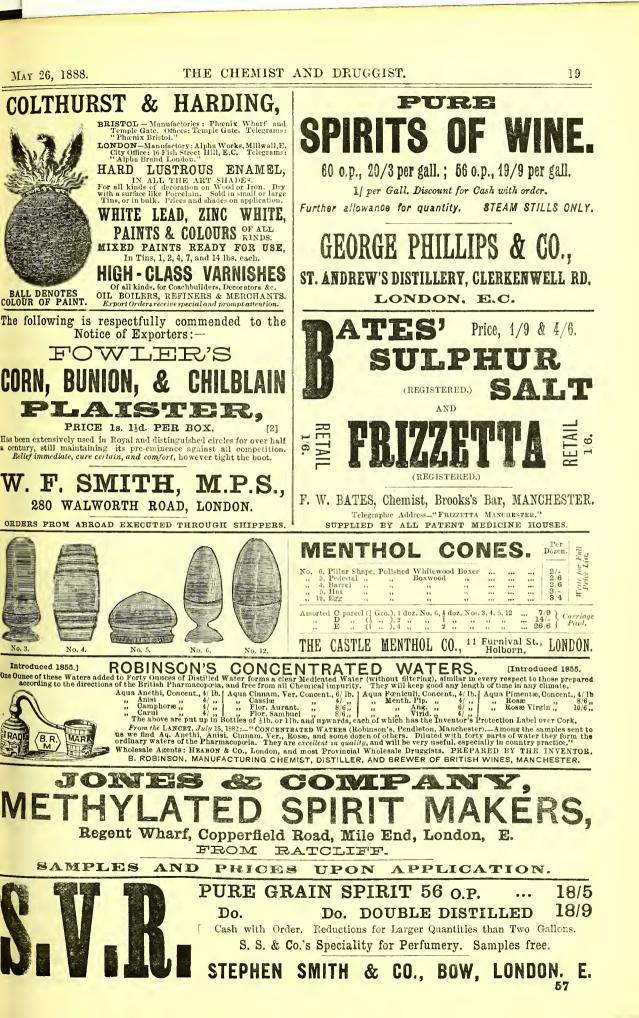




Prepared only by DAY, SON & HEWITT, 22 DORSET STREET, LONDON, W. A LIBERAL DISCOUNT TO FOREIGN BUYERS. PARTICULARS AND LIST OF AGENTS ON APPLICATION. 18

MAY 26, 1888.

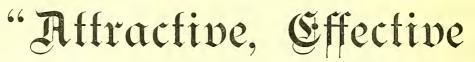




Nos. 161, and 21

Special Quotations f

Large Quantities.



# Profitable Advertisement.'

With all Orders for £2. 2s. Od. net we shall present a LARG SHOW CONE, 18 inches high, made in "TERRA COTTA" This is a very attractive window ornament, and quite nove, the Model representing one of our No. 161 Cones with the lil off, and the Cone showing a splendid white in striking contras; to the red foot.

All our Cones are guaranteed Pure Menthol, and our Prices are the LOWEST in the market, if SIZE of Cone is taken into consideration. Our Boxes are all branded. and buyers may have their own names on for quantities of five gross free of charge: the Boxes do not then bear OUR BRAND.

PUREMENTHO

No 201 and 201 B.

HOCKIN,

201B.

ACME

In ordering through Merchants and the Wholesale Trade, from whom our preparations may be had at above prices, please state distinctly

MANUFACTURED BY

13-16 NEW INN YARD, TOTTENHAM COURT ROAD, W.

BRAND"

20



A Sample Box containing one each of above, 8/; by post 9/.

AND HOCKIN'S.

MENTHOL

Nos. 89, 90, and 97.

5 per cent. Discount for

Cash with Order.



MAY 26, 1888



WARRANTED NOT TO SPLIT.

A.-Metal Pin Valve.

**INGRAM'S IMPROVED PATENT SEAMLESS ENEMA** is perfectly smooth on the surface, II not become hard or sticky, will not leak, and will not admit air while injecting or refilling. Specially prepare to resist the heat of tropical countries.

The great superiority of **INGRAM'S IMPROVED PATENT SEAMLESS ENEMA** over all other has given rise to VARIOUS IMITATIONS, and it has become imperative that the Patentees should, in order to PREV T DECEPTION, explain the PROCESS OF MANUFACTURE OF THEIR ENEMA and the MODE OF MANUFACTURE OF IMITATIONS thereof, as they have UNDENIABLE PROOF that INFERIOR ENEMAS are positively BEING SOLD as their "ADVERTISI PATENT SEAMLESS ENEMA.

**INGRAM'S IMPROVED PATENT SEAMLESS ENEMA** is made by a NEW PATENT PROC<sup>5</sup>, viz. : By repeated dipping in a solution of India Rubber until the required substance is attained. This process als greatly to its STRENGTH and DURABILITY, and, at the same time, dispenses WITH ALL SEAMS, which, as is well kno 1, are weak points in an Enema. This improved mode of manufacture (the result of long study and experier) enables the Patentees to produce a PERFECT ENEMA WITHOUT SEAMS, thus overcoming the great fault to be found ALL other Enemas, viz. : SPLITTING AND LEAKING, which has always been a source of trouble.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA is fitted with IMPROVED VALVES, with prevent the admission of air with the fluid and can at any time be REPAIRED, if necessary.

**CAUTTION.**—Imitations of INGRAM'S IMPROVED PATENT SEAMLES ENEMA are made of several pieces of Sheet India Rubber, which are cemented together and shaped n a mould, THUS PRODUCING RIES ON THE SURFACE, and ENEMAS SO MANUFACTURED ARE ALWAYS LIABLE TO SPLIT. D LEAK AT THE SEAMS, AND THUS TO BECOME QUITE USELESS.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA may be distinguished from L IMITATIONS by its ENTIRE FREEDOM FROM RIBS OF ANY DESCRIPTION ON its surface, and by having an IMPROVED ME PIN VALVE at the suction end A; and it is acknowledged to be the ONLY PERFECT ENEMA OBTAINABLE.

Patented in England, No. 1474, April 12, 1878; in France, No. 126,909, October 11, 1878; and in America, No. 212,939, March 4, 1879.

To be obtained of all Surgical Instrument Makers, Druggists' Sundrlesmen, Chemists and Druggists, n the three following qualities :---

No. 1a. Highly Polished, in Red, Green, Blue, Black, or White. No. 1b. Unpolished, in Red, Green, Blue, Black, or White. No. 2. Unpolished, in Drab only.

Favourably noticed in "British Medical Journal," December 13, 1879; in the "Lancet," January 8, 1880; and in "British Medical Journal," September 30, 1882.



MAY 26, 188





THE CHEMIST AND DRUGGIST.

MAY 26, 1888.

"THE BEST NATURAL APERIENT."

Persistent attempts are made by interested parties to deceive the public by offering Natural Mineral Aperient Waters wit marks, names, and designations very similar to those which are used by the

APOLLINARIS COMPANY, LIMITED

FOR THE

# NATURAL MINERAL APERIENT WATER

IMPORTED BY THEM.

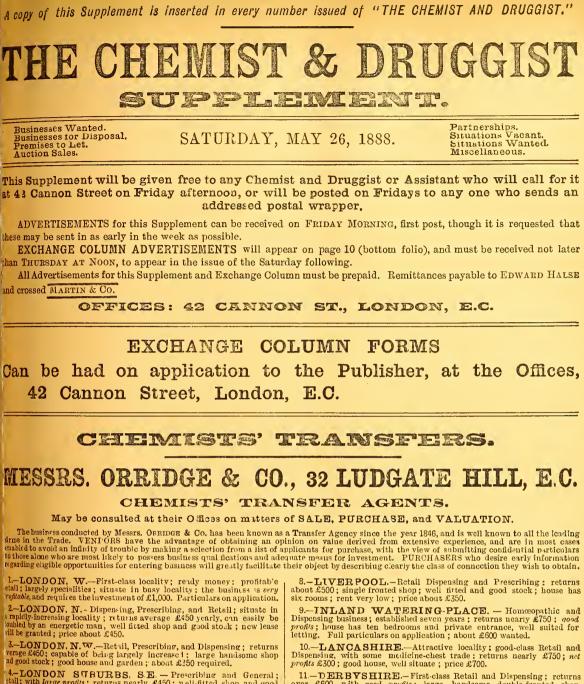
Under these circumstances the APOLLINARIS COMPANY, LIMITED, feel compelled to caution the public that the HUNGARIAN BITTER WATER sold by the COMPANY always bears the narof the APOLLINARIS COMPANY, LIMITED, on the Label.

CADBURYS COCOA ESSENCE

The medical profession order Cadbu's Cocoa Essence in thousands of cases the most wholesome beverage. Be s

you get it when asked for, as imitations are often pushed for the sake of extra profit. "We have carefully examined the samples brought under our notice, and find that they are genuine, and that the Essence of Cocon is just what 's declared to be by Messrs. Cadbury Brothers."—*Lancet.* "Cocoa treated thus will, we expect, prove to be one of the most nutritious, digestible, and restorative of drinks."—Brittsh Medical Journal. GUARANTEED PURE AND SOLUBLE.

OF APOLLINARIS WATER, FRIEDRICHSHALL WATER, HUNYADI JÁNOS WATER, **THE APOLLINARIS CO., LIN**, 19 REGENT STREET, LONDON, S.W.



4-LONDON SUBURBS, S.E. - Prescribing and General; stail; with *large profits*; returns nearly £450; well-fitted shop and good tock; convenient house, good gyrden, &c.; vendor taking a larger busi-ess will accept any resonable offer.

5.-LONDON, N.W.-Handsomely fitted shop; good nucleus; resent returns about £25 per month under an assistant, the vendor being beent. Less than the value of stock and fixtures will be accepted.

6-LONDON, W.C.-Dispensing and Retail for sale under excep-ional dircumstances; present returns, £12 per week; can be largely itended; good stock; well-fitted shop; rent low; open to an offer.

7.-HOME COUNTY.-Good Market Town.-Mixed Country usiness; returns £2,500, with good profits; comfortable house; moderate ental; terms £150 goodwill and valuation of stock and fixtures.

11-DERBYSHIRE.-First-class Retail and Dispensing; rcturns over £600, with good profils; large, handsome, double-fronted shop, corner position; valuatiou of stock and fixtures only required.

12.-KENT.-First-class Business for disposal on very easy terms, in consequence of dissolution of pathership; returns about £1,000; large, hand-owely-hitted sbop and good stock; price about £800, £400 down, r.m.inder by easy instalments.

13.-HOME COUNTY.-Mixed trade; returns nearly £2,200, with *oood net profits*; good opening for much larger business; valuation of stock and fixtures only required; genuine concern; worth attcution.

14.-SUSSEX -First-class Pharmacy for disposal; returns rearly £1.350; large haudsome double-fronted shop and good stock; about £1,00 is required.

#### N.B.-NO CHARGE TO PURCHASERS.

Other Businesses. Town and Country; particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and dvice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION. Messrs. Our DGE & Co. invite communications from COLONIAL and FOREIGN firms, where business of a confidential nature requires the especial itention of a Loudon agent.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

# PARSON C. BAKER,

8 Stockbridge Terrace, Victoria Station, S.W.

25 Years' Experience Valuation for Probate, dc.

- 1. ESSEX.—Returns £630; rent £22; price £400.
- 2. LANCASHIRE.-Returns £1,025; rent £88; price £950.
- SYDENHAM—Returns £300; rent £30; price £220.
   LONDON, N.—Returns £300; rent £45; price £180.
- 5. HAMMERSMITH.-Returns £200; rent £40; price £180.
- HANLEY.—Returns £930; rent £30; price £600.
   DURHAM.—Returns £1,000; rent £46; price £500.
- CAMBERWELL.—Returns £400; rent £28; price £200.
   OLAPHAM.—Returns £400; rent £40; price £200.
   LEYTONSTONE, E.—Returns £240; rent £40; price £225
- 11. NOTTINGHAM.-Returns £400; rent £25; price £200.

Some of the above newly established increasing rapidly.

# THOS. TOMLINSON & SON, **CHEMISTS AND DRUGGISTS' VALUERS**

#### 9 New Cannon St., MANCHESTER.

Have the most experienced Practice in the Profession.

INVENTORIES AND OPEN VALUATIONS FOR STOCKTAKING OR OTHERWISE.

## FOR SALE.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

TO Surgeous and Chemists -- To be sold, for £550, a House and Shop. with plate-glass front, in good condition, with neat fixtures and business; opened 1882 as a Provident Dispensary in a rapidly improving street, the only one of business connecting two sections of a new, flourishing, and wealthy town on the South Coast: cause of selling, age and in-sufficient time. "Medicus," Ivy Honse, Goldstone Road, Hove. Brighton.

**SALE BY TENDER.**—F. J. Brett, Leicester, is instructed by Mr. E. B. Storm, of Lincoln, to offer by tender the Business as now and for several years carried on by him at 214 High Street, Lincoln : the Busi-ness is a good-class, profitable Retail, returning about £1,200; the position is one of the best in the city ; the shop, office, &c., are handsomely fitted and convenient; there are several good proprietary articles capable of great development; in consequence of Mr. Storm being desirous of accept-ing a very lucrative offer, he is prepared to sell for eash at a discount off the usual valuation; tenders will be opened on Tuesday, June 5, at Lui-coln, by F. J. Brett. Forms of tender (now ready) and further particulars ean be had of F. J. Brett, Trade Valuer, 60 St. Stephen's Koad, Leicester.

## TO LET.

3s. 6d. for fifty words ; 6d. for every 10 words beyond.

SHOP and House, situate No. 180 The Grovc, Stratford; splendid busi-ness position, near 3 railway stations; thonsands pass daily; snit-able for a Chemist and Druggist. Apply to the Freeholder, Edward Jex, 27 St. Mary-at-Hill, Easteheap, London.

To Retired Chemists and Others.—The upper part of a Shop, facing the sca, having private door, two bedrooms, sitting-room, and kitchen, to let on reciprocal terms for a permanency; partial board would be ac-cepted in lieu of rent. Batchelor, Brunswick Pharmacy, West Worthing, Sussex.

WATERLOO.-To be Let, new corner Shop and House in good thoronghfare and rising neighbourhood; good opening for a Chemist and Druggist; one window can be seen for three-quarters of a mile in a well inhabited thoroughfare. Apply to T. Breckell, 34 Mount Pleasant, Waterloo.

### BUSINESS WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

**A GENUINE** Business, in good country town, or growing London suburb not objected to, returning about £800 or more. Full par-ticulars to Mr. Edwards, Pharmaceutical Chemist, 4 Blisset Street, Greenwich.

3s. 6d. for fifty words; 6d. for every 10 words beyon

FOR SALE, a Chemist's Business in densely populated part of eeds; thrmover £8 weekly, which might be considerably increased; esent owner retiring from business; rent £32; price £225. Apply, Blirst, Brooke & Hirst, Leeds.

A N old-established Chemist and Druggist's Business, in smallarket A town in Midland Connties; in present hands nearly quar of a centnry; reut £24; freehold may be purchased if preferred; retur about £400 per annum. Apply, E. & H. Allison, Hull.

MIXED Village Trade; returns £600; good profits; Pres blne, Tooth-extracting, Sheep-dipping, and Farmers' trade; every vest-gation; price £420, or fair offer; vendor taken larger cencern, mesell, Address, "Chemist," Lynch & Co., Alder: gate Street, London, E.O.

**MINERAL** Water Business to be sold, upon most advantageouterms; large and old-established connection; valuation of fixed a loose plant, machinery, horses, earts, &c., only required; cash about 1,800. Apply to Fleuret & Sons, Auctioneers, 23 Southampton Row, Holbol W. C.

**GOOD-CLASS** ready-money Retail, Dispensing, and Preseding; good fittings; capital stock; large house, garden; splendid sition in large town; no good will; price about 4300; special reads for disposal 227/7, Office of THE CHEMIST AND DRUGGIST, 42 annou Street, E.C.

IN a rapidly-increasing suburb of East London, a newly-est lished well-fitted and stocked corner Shop in main road, centre of durict, rent £40; already paying all expenses under manager; owner cant give attention, and will sell for value of stock and fixtures. Apply, Y. Z., care of Mr. Baker, 8 Stockbridge Terrace, S.W.

**£100.** UNOPPOSED Business, Somerset; very pret part; excellent honse; large grden, well stock with fruit trees; to a man accustomed to a country trade this affords a xeep-tional chance; price, £100, includes stock and fixtures, two larg reca-honses, and vines. F. J. Brett, 60 St. Stephen's Road, Leicester.

VILLAGE Business in the Midlands; in consequence of havi money and taken larger business; Retail and Prescribin trade, returning £500, with a clear net profit of £202, after paying all e nase; good honse, rent £29; price only £30, or valuation; no goodwill.Apply to G. H. W., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Str., E.C.

**UNOPPOSED** Basiners in Hampshire for immediate sale; pelation mearly 2,000; returns nnder assistant ±6 weekly; good-clas;rade; principal would do ±10 to ±12 immediately; rent low; good de and premises; nixed trade can be added; price only ±150, less thai/alua-tion. Apply to "Hampshire," Office of THE CHEMIST AND DigGIST, 42 Conney Street EC 42 Cannou Street, E.C.

CHEMIST and Druggist's Basiness in Warrington.-To be disied of, as a going concern, and by private treaty, the Goodwill Trade, Stock, shop Fixtures, and Fitting of a Basiness situate in a capi posi-tion fronting a main street near the centre of the town; there is cellent dwel.ing-loose accommodation, and the rent is moderate. App o Mr. Lewis Voisey, Chartered Accountant, Warrington.

**RETURNS £400**; good profits: no preminm; must be e faced about £200; present owner cannot attend to it, having other occ ation; large corner house in main r nad, pleasant and convenient subarb pidly increasing; upper part let, so will suit a single man who is a g; pre-scriber and tooth extractor, or for a branch. Letter only, Martien vien, Queen's Road, Teddington.

### SITUATIONS OPEN.

3s. 6d. for fifty words ; 6d. for every 10 words beye'l.

**UNIOR**, at once, about 20, for Dispensing and light-class I incess. Apply, Mr. Andrews, Chemist, High Street, Croydon.

WANTED, an Assistant; must be a good Counterman; liber alary, increasing. Apply, Boutall, Chemist, 52 Marchmont Street /.

A N Assistant, about 23 or 24 years old, with Minor qualification .pply, with full particulars, to Glaisyer & Kemp, Brighton.

MMEDIATELY.--Assistant (indoors), who requires time to tudy. Full particulars, with carte, to 28 Kilburn Lane, Kensal Green 7.

WANTED immediately, a Junior Assistant; outdoors; quic eady-money trade. Apply, giving full particulars, to D. P. 131 North End, Croydon.

**J**UNIOR Assistant, abont 22, for a light Retail and Dispensi busi-ness; quick and accurate Dispenser, able to Prescribe and (t in charge occasionally. State age, heig'.t, salary, reference, with ca, and when disengaged, to John Les, Folkestone.

#### THE CHEMIST AND DRUGGIST SUPPLEMENT.

UNIOR, for Light Retail; short hours; full particulars, with photo (if convenient); applications not auswered in four days declined. Ernest Cardwell, Minster Street, Reading.

WANTED, immediately, Apprentice, Turnover, or Improver, for good-class Dispensing Business; no duty after 9 P.M., or on Sundays. Thompson, Pharmaceutical Chemist, Putney, S.W.

**MPROVER** or Junior for a light Retail at Ramsgate; indoors; good references indispensable. Apply, stating age, height, salary, &c., with photo, to be returned, to Mr. Knowles, Chemist, Wallington, Surrey.

WANTED, for about a month, young man to represent Wholesale House during illness of traveller. Apply, by letter, to B. E. B., 9 Percy Villas, Church Lane, Willesden, stating agc and salary.

WANTED, an energetic Junior, accustomed to a pushing middle-class Retail; a good Salesman and Prescriber; state salary (outdoor), reference, experience, height, and age. "Eta," Office of THE OHEMIST AND DRUGGIST, 42 CANUON Street, B.C.

JUNIOR Assistant required, age not under 20, of good business habits, for a light retail; time allowed for study. Apply, stating salary required, age, height, and reference, enclosing carte, to W. Jacobs, Chemist, Medicai Hall, Guildford, Surrey.

QUALIFIED Assistant (another kept), with good references and experience, early in June, for about two months; total abstainer preferred. Apply, with full particulars and salary required, to W. Wilson, 80 Lamb's Conduit Street, London, W.O.

WANTED immediately, a qualified Assistant to take partial charge of branch business; a pushing, energetic man; good salesman and tooth extractor. Apply, stating age, height, references, and salary required, to P., Office of THE OHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, Junior Assistant; indoors; aged 21 or 22; accustomed to good-class Dispensing Busiuess; one only kept; dwelling-house apart from business. State salary required, references, when at liberty, and usual particulars, to T. Fox, Great Malvern.

A JUNIOR Assistant (to live in), who can extract Teeth, and has been accustomed to a Mixed Conutry Busiuess; will be required to assist in post office. State age, height, last two engagements, and salary re-quired, and enclose photo, to John Gibson, Chapeltown, Sheffield.

**JUNIOR** Assistant, Minor qualification preferred, on or before June 1st, about 25, for a Retail and Dispensing Business; quick and accurate Dispenser; able to prescribe, and left in charge occasionally. State age, height, salary, reference, with carte, to James Tilson, Long Sutton, Lincoln-

WANTED, an experienced Assistant, of good address, and accustomed to a general, good-class Dispensing Retail; three kept; state age, height, reference, and salary required, either indoors or out; applicants not answered in three days declined. H. S. Martin, Chemist and Mineral Water Manufacturer, East Grinstead, Sussex.

WILLIAM HESELTINE & SON, Wilson Street, Finshury, E.C., are open to engage a first-class man to introduce and appoint Chemists as Agents for their Teas; liberal terms to one having necessary qualifications (see advortisement appearing in this issue). Apply by etter, as above, in first instance.

**LEEDS.**—Junior wanted for good-class business; must be active, pushing, and not below average height; good address indispensahle: state salary required outdoors, and reference to last situation; carte if possible, which would be returned; good opportunity for young man just out of apprenticeship. Reinhardt & Sons, 76 Briggate, Leeds.

**C**ERMAN Hospital, Dalston.—The appointment of Second Dispenser becoming vacant on the 30th June, candidates are requested to send in their applications and testimonials as to qualification and character to the undersigned, on or hefore Wednesday, the 13th of June; the salary, besides board and lodging, commences at £30 per annum, and will be in-creased if the candidate appointed gives satisfaction. A. Wallaum, D.D., Hon. Secretary. Hon. Secretary.

## SITUATIONS WANTED.

1s. for twelve words; 6d. for every six words beyond.

E VENING E\_gagement; qualified; aged 24. "Associate," 324 Cale-donian Road, N.

MPROVER; 3 years' experience; London preferred. C. T., 131 King's Road, Chelsea.

A<sup>S</sup> Temporary; qualified; first-class references; disengaged. X., 80 Lumley Road, Skegness.

M. SEYMOUR, 37 Milk Street, Bristol, undertakes charge during illness or absence of proprietor.

**RETAIL** or Wholesale : great experience : good references ; married ; aged 37. Hambly, 25 Maynard Street, Leicester.

**WANAGER** or Dispenser, Chemist or Surgeon ; temporary or per-manent. Dunkerly, M.P.S., 88 Morton Road, Essex Road, Islington, N.

MANAGER or Senior; aged 38; reference first-class. Address, T., 10 Lodge Avenue, Mortlake.

A S Assistant or Traveller ; outdoors ; good references ; aged 25. F. H., Mr. Cheriton, North Street, Bridgwater.

A SSISTANT ; aged 22 ; Minor ; town and country experience ; good reference. F. B., Birk's Farm, Girlington, Bradford.

**OCUM-TENENS.**—Previous to engaging, write a post-card for terms to "Pharmacy," 7 St. Stephen's Road, Rotherham.

A SSISTANT or Manager for Branch; reference; can dispense, pre-scribe, extract teeth, &c. Address, "Iodoform," 129 Graham Street, Penrith.

A DVERTISER, used to good-class trade, gives occasional assistance on moderate terms. Mr. Taylor, 30 Devonport Road, Shepherd's

**MPROVER** in Dispensing business; 4 years' experience in mixed business; aged nearly 20; height 5 ft. 9 in.; excellent references. E. Wheeldon, Lovely Lane, Warrington.

AS Assistant, unqualified; 20 years thorough General experience; excellent references; aged 34; height 5 ft. 8 in.; single; abstainer; disengaged. "Statim," 162 Windmill Street, Gravesend.

WHOLESALE.-Invoice Clerk, experienced; 5 years in last situa-tiou; disengaged. W. M., 2 Kynaston Road, Stoke Newington, London.

**DISPENSER** to Surgeon or Institution; 7 years' experience; good reterences; Minor qualification. D., care of Godfrey, 1 High Street, Sittinghourne.

JUNIOR or Dispenser; Minor and Hall qualifications; 8 years' expe-rience; aged 25; height 5ft. 8 in.; disengaged. W. T., 189 Upper Parliament Street, Liverpool.

A SSISTANT, disengaged, as Dispenser or ordinary Counter-hand, or could manage Brauch; excellent references; 8 ycars' experience. Moore, Main Street, Newmilns, Ayrshire.

A S Junior or Improver, in a Mixed Business preferred; good references; mouth. "Statim," 12 Wellington Street, Teign-

W HOLESALE and Retail Chemists, &c.-Traveller or Mauager; engagement required by advertiser; long experience in each; highest references. W. W., Eagles & Egan, 1 Philpot Lane, E.C.

TOWN Traveller, Manager, or other responsible position; good expe-rience and address; unquestiouable references; disengaged; aged 29; married; strictly temperate. "Traveller," 20 Princes Street, Landport, Hants.

MANAGER or otherwise; married; experienced Prescriber and Tooth Extractor; qualified all round; previous three situations 4 years, 2 years, and 7 years; undeniable references; Manchester or district preferred. A. Walker, 14 Pigot Street, Greenheys, Manchester.

TRAVELLER.--Advertiser is open to re-engagement as Traveller; has formerly represented a Wholesale Drug firm in London; knows every branch of the business; small safe councetion. "Commerce," Office of The CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A DVERTISER (21) seeks situation in Wholesale Druggist's, wet or dry counter, or in Patent Medicine house; 5 years' good references. "Drug," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A CHEMIST wishes to place his son, aged 17, tall, for a term of 3 years in a good house (Eastern Connties), where he will be able to learn the business thoroughly; has passed the Preliminary examination; member of Ohnreh of England. Z., care of Harker, Stagg & Morgan, Barbican, E.C.

A DVERTISER, aged 30, requires a good Dispenser's place; expe-rienced, having been a surgeon's assistant (unqualified) for 9 years, but, owing to bad health, obliged to give it up on account of night work; quick and accurate Dispenser, good Prescriber, Dentist, &c.; best refer-ences. Address, W. A. S., 24 Head Street, Colchester.

### MISCELLANEOUS.

Special charges are made for Advertisements under this heading which can be obtained on application.

OXES.—Light Wood Boxes, cheapest, strongest, and best, suitable for predices, the line of the strongest, and best, suitable for packing all kinds of articles for transmission by post or rail; all sorts and sizes of boxes made to order; samples and price-lists, 4 stamps. Write for sample, stating size required, to T. Casbon, Millfield Box Works, Peterborough.

SHARES.—For sale, 40 £5 shares (£2 10s. paid on each in Henry Lamplanch of G on each) in Henry Lamplough & Company (Limited), proprietors of Lamplough's Pyretic Saline; very old-esta-blished business, paying regular dividends of 10 per cent.; will accept £2 each for prompt settlement. Letters, B., 100 Caledonian Road, N.

TO Chemists' Machinery Manufacturers.—New In-vention.—Pill-Coating Machine; entirely new principle; vention .- Pill-Coating Machine; entirely new principle; would soon supersede every other; inventor having neither time nor cash to introduce will take £10 for complete drawings, all rights to invention, and new coating solution ; deposit system (see Exchange Column). "Chemist," 55 Church Road, Islington.

#### PRELIMINARY AND MINOR.

MAY 26, 1888.

LL Students who are preparing should sen for particulars of a method of study which will enab them to pass with ease. Enclose stamped envelope to M J. Tully (Hills Prizeman), Chemist, Hastings. Establishe 1872. References to past and present Pupils. 32 Pupi passed the last Examinations.

#### STUDENTS' AIDS TO EXAMINATION.

RELIMINARY.—Arithmetic and Metric System 18. How to Write an Essay, 3d. Cæsar Simplified, 1 Knotty Points in Latin Grammar, 1s. 6d. MINOR.—Equation Simplified, 1s. Illegible Autographic Prescriptions, 1s. Note on Dispensing, 1s. Prescriptions given at the Minor, 6. "Chemist," care of Mr. J. Edwards, Wye, Kent.

#### By GEORGE STIRLING.

By GEORGE STIRLING. A Table of Organic Materia Medica., Presenting in tabular form ti official or officinal names, botanical or zoological sources and parts used, natur orders, habitats, active principles and other constituents, medicanal actin, prepar-tions, &c., of the animal and vegetable materia medica of the British Pherm copeia, and also of many non-official substances in common use. Post free, ls, lc or in stiff cloth for pocket, ls, 7d. Notes on Dispensing, 3rd Edition...Consisting of lints on the manipulatic of mixtures, emulsions, supposito ics, &c., with a special section (now containin over 120 references) on difficult pills and excipients, pearl-coating, &c., interleave for Ms, notes. Post free, ls, ld. Doses of B. P. 1e85.-Compactiv arranged for vest preket. Easily masteree Postfree, 6d. GOWER, Publisher, 47 Sigdon R ad, Dalston Lane, Loadon.

EXCHANGE COLUMN.

# Limited to the Advertisement of Surplus Stock, Formulæ Addresses Wanted, and Articles Wanted.

NOTICE .- No Advertisement is inserted in this section for less than Sixpence.

just to Advertise future Horm for surplus stock tran this DO have noA 51

Offices-42 CANNON STREET, LONDON, E.C.